

# **DIABETES**

## **LITERATURE INDEX**

**NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES**

**U.S. DEPARTMENT OF  
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V  
1  
2  
5

M  
Y

7  
7

11



# DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the  
National Institute of Arthritis, Metabolism, and Digestive Diseases

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V  
1  
2  
5  
  
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Y  
  
7  
7  
  
II

# DIABETES LITERATURE INDEX

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VOLUME 1

1. *Diabetes Mellitus*  
2. *Diabetes Insipidus*  
3. *Diabetes Mellitus, Type I*  
4. *Diabetes Mellitus, Type II*  
5. *Diabetes Mellitus, Type III*

6. *Diabetes Mellitus, Type IV*  
7. *Diabetes Mellitus, Type V*  
8. *Diabetes Mellitus, Type VI*  
9. *Diabetes Mellitus, Type VII*  
10. *Diabetes Mellitus, Type VIII*

11. *Diabetes Mellitus, Type IX*  
12. *Diabetes Mellitus, Type X*  
13. *Diabetes Mellitus, Type XI*  
14. *Diabetes Mellitus, Type XII*  
15. *Diabetes Mellitus, Type XIII*

16. *Diabetes Mellitus, Type XIV*  
17. *Diabetes Mellitus, Type XV*  
18. *Diabetes Mellitus, Type XVI*  
19. *Diabetes Mellitus, Type XVII*  
20. *Diabetes Mellitus, Type XVIII*

21. *Diabetes Mellitus, Type XIX*  
22. *Diabetes Mellitus, Type XX*  
23. *Diabetes Mellitus, Type XXI*  
24. *Diabetes Mellitus, Type XXII*  
25. *Diabetes Mellitus, Type XXIII*

26. *Diabetes Mellitus, Type XXIV*  
27. *Diabetes Mellitus, Type XXV*  
28. *Diabetes Mellitus, Type XXVI*  
29. *Diabetes Mellitus, Type XXVII*  
30. *Diabetes Mellitus, Type XXVIII*

31. *Diabetes Mellitus, Type XXIX*  
32. *Diabetes Mellitus, Type XXX*  
33. *Diabetes Mellitus, Type XXXI*  
34. *Diabetes Mellitus, Type XXXII*  
35. *Diabetes Mellitus, Type XXXIII*

36. *Diabetes Mellitus, Type XXXIV*  
37. *Diabetes Mellitus, Type XXXV*  
38. *Diabetes Mellitus, Type XXXVI*  
39. *Diabetes Mellitus, Type XXXVII*  
40. *Diabetes Mellitus, Type XXXVIII*

41. *Diabetes Mellitus, Type XXXIX*  
42. *Diabetes Mellitus, Type XL*  
43. *Diabetes Mellitus, Type XLI*  
44. *Diabetes Mellitus, Type XLII*  
45. *Diabetes Mellitus, Type XLIII*

46. *Diabetes Mellitus, Type XLIV*  
47. *Diabetes Mellitus, Type XLV*  
48. *Diabetes Mellitus, Type XLVI*  
49. *Diabetes Mellitus, Type XLVII*  
50. *Diabetes Mellitus, Type XLVIII*

51. *Diabetes Mellitus, Type XLIX*  
52. *Diabetes Mellitus, Type L*  
53. *Diabetes Mellitus, Type LI*  
54. *Diabetes Mellitus, Type LII*  
55. *Diabetes Mellitus, Type LIII*

56. *Diabetes Mellitus, Type LIV*  
57. *Diabetes Mellitus, Type LV*  
58. *Diabetes Mellitus, Type LVI*  
59. *Diabetes Mellitus, Type LVII*  
60. *Diabetes Mellitus, Type LVIII*

61. *Diabetes Mellitus, Type LIX*  
62. *Diabetes Mellitus, Type LX*  
63. *Diabetes Mellitus, Type LXI*  
64. *Diabetes Mellitus, Type LXII*  
65. *Diabetes Mellitus, Type LXIII*

66. *Diabetes Mellitus, Type LXIV*  
67. *Diabetes Mellitus, Type LXV*  
68. *Diabetes Mellitus, Type LXVI*  
69. *Diabetes Mellitus, Type LXVII*  
70. *Diabetes Mellitus, Type LXVIII*

## CONTENTS

	<i>Page</i>
PREFACE .....	iv
EDITORIAL NOTE .....	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	3295
MEDLARS Terms Included in HIERARCHICAL INDEX .....	3297
KEYWORD INDEX .....	3341
AUTHOR INDEX .....	3421

## PREFACE

*Diabetes Literature Index* is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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Diabetes Literature Index  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
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Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

## EDITORIAL NOTE

*Diabetes Literature Index*, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

*Hierarchical Subject Index:* This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

**Key Word Index:** For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

**Author Index:** Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

## Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS		
I.A	ISLANDS OF LANGERHANS		
I.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	I.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
I.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	I.E.3.6	HYPERGLYCEMIA, ETIOLOGY
I.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	I.E.3.7	HYPERGLYCEMIA, METABOLISM
I.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	I.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
I.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	I.E.3.9	HYPERGLYCEMIA, URINE
I.B	PANCREAS	I.E.4	GLYCOSURIA
I.B.1	PANCREAS, ANATOMY RELATED	I.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
I.B.2	PANCREAS, BIOCHEMISTRY RELATED	I.E.4.2	GLYCOSURIA, COMPLICATIONS
I.B.3	PANCREAS, PHYSIOLOGY RELATED	I.E.4.3	GLYCOSURIA, DIAGNOSIS
I.B.4	PANCREAS, PHARMACOLOGY RELATED	I.E.4.4	GLYCOSURIA, DRUG THERAPY
I.B.5	PANCREAS, PATHOLOGY RELATED	I.E.4.5	GLYCOSURIA, ENZYMOLOGY
I.B.6	PANCREAS, SURGERY RELATED	I.E.4.6	GLYCOSURIA, ETIOLOGY
I.B.6.1	PANCREAS, TRANSPLANTATION	I.E.4.7	GLYCOSURIA, METABOLISM
I.B.6.2	PANCREATECTOMY	I.E.4.8	GLYCOSURIA, OCCURRENCE
I.C	INSULIN	I.E.5	GLYCOSURIA, RENAL
I.C.1	INSULIN, BIOCHEMISTRY RELATED	I.E.6	HYPOGLYCEMIA
I.C.1.1	INSULIN, ISOLATION AND PURIFICATION	I.E.6.1	HYPOGLYCEMIA, BLOOD
I.C.1.2	INSULIN, ANALYSIS	I.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
I.C.1.3	INSULIN, CHEMICAL SYNTHESIS	I.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
I.C.1.4	INSULIN, BIOSYNTHESIS	I.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
I.C.1.5	INSULIN, METABOLISM	I.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
I.C.1.6	INSULIN, BLOOD	I.E.6.6	HYPOGLYCEMIA, ETIOLOGY
I.C.1.7	INSULIN, URINE	I.E.6.7	HYPOGLYCEMIA, METABOLISM
I.C.2	INSULIN, PHYSIOLOGY RELATED	I.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
I.C.2.1	INSULIN, PHYSIOLOGY	I.E.6.9	HYPOGLYCEMIA, THERAPY
I.C.2.2	INSULIN, SECRETION	I.F	DIABETES
I.C.3	INSULIN, PHARMACOLOGY RELATED	I.F.1	ALLOXAN DIABETES (SEE SEC. I.F.10.2)
I.C.3.1	INSULIN, PHARMACODYNAMICS	I.F.2	DIABETES MELLITUS
I.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	I.F.2.1	DIABETES MELLITUS, JUVENILE
I.C.3.3	INSULIN, ADVERSE EFFECTS	I.F.3	DIABETES, BIOCHEMISTRY RELATED
I.C.4	HYPERINSULINISM	I.F.3.1	DIABETES, METABOLISM
I.C.4.1	INSULIN COMA	I.F.3.2	DIABETES, ENZYMOLOGY
I.C.5	INSULIN ANTIBODIES	I.F.3.3	DIABETES, BLOOD
I.C.6	INSULIN RESISTANCE	I.F.3.4	DIABETES, URINE
I.C.7	INSULIN, THERAPY RELATED	I.F.4	DIABETES, PHYSIOPATHOLOGY
I.C.7.1	INSULIN, DIAGNOSTIC USE	I.F.5	DIABETES, IMMUNOLOGY
I.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)	I.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
I.C.7.3	INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)	I.F.6.1	DIABETIC KETOACIDOSIS
I.C.8	INSULIN, HISTORY	I.F.6.1.1	ACIDOSIS, DIABETIC
I.D	GLUCAGON	I.F.6.1.2	DIABETIC COMA
I.D.1	GLUCAGON, BIOCHEMISTRY RELATED	I.F.6.2	DIABETIC ANGIOPATHIES
I.D.1.1	GLUCAGON, ANALYSIS	I.F.6.3	DIABETIC NEUROPATHIES
I.D.1.2	GLUCAGON, METABOLISM	I.F.6.4	DIABETIC NEUROPATHIES
I.D.1.3	GLUCAGON, BLOOD	I.F.6.5	DIABETIC RETINOPATHY
I.D.2	GLUCAGON, PHYSIOLOGY RELATED	I.F.6.6	OTHER COMPLICATIONS OF DIABETES
I.D.2.1	GLUCAGON, PHYSIOLOGY	I.F.6.7	DIABETES PATHOLOGY
I.D.2.2	GLUCAGON, SECRETION	I.F.6.8	PREGNANCY IN DIABETES
I.D.3	GLUCAGON, PHARMACOLOGY RELATED	I.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
I.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	I.F.7.1	DIABETES, OCCURRENCE
I.D.3.2	GLUCAGON, PHARMACODYNAMICS	I.F.7.2	DIABETES, ETIOLOGY
I.D.3.3	GLUCAGON, TOXICITY	I.F.7.3	DIABETES, CONGENITAL
I.D.4	GLUCAGON, THERAPY RELATED	I.F.7.4	DIABETES, FAMILIAL AND GENETIC
I.D.4.1	GLUCAGON, DIAGNOSTIC USE	I.F.7.5	PREDIABETIC STATE
I.D.4.2	GLUCAGON, THERAPEUTIC USE	I.F.8	DIABETES, DIAGNOSIS RELATED
I.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	I.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. I.E.2)
I.E.1	BLOOD SUGAR	I.F.8.2	DIABETES, DIAGNOSIS
I.E.1.1	BLOOD SUGAR, ANALYSIS	I.F.9	DIABETES, THERAPY RELATED
I.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	I.F.9.1	DIABETES, PREVENTION AND CONTROL
I.E.1.3	BLOOD SUGAR, METABOLISM	I.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
I.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	I.F.9.2.1	OBESITY IN DIABETES
I.E.2	GLUCOSE TOLERANCE TEST	I.F.9.2.2	GLUCOSE, THERAPEUTIC USE
I.E.3	HYPERGLYCEMIA	I.F.9.2.3	DIET
I.E.3.1	HYPERGLYCEMIA, BLOOD	I.F.9.2.4	DIABETIC DIET
I.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	I.F.9.2.5	DIETARY CARBOHYDRATES
I.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	I.F.9.2.6	DIETARY FATS
I.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	I.F.9.2.7	CYCLAMATES
		I.F.9.2.8	SACCHARIN
		I.F.9.3	DIABETES, INSULIN AND THERAPY



# Arrangement of the Hierarchical Index

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE  
 1.F.9.3.2 INSULIN, THERAPEUTIC USE  
 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY  
 1.F.9.4.1 ANTIDIABETICS  
 1.F.9.4.2 TOLBUTAMIDE  
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES  
 1.F.9.4.4 PHENFORMIN  
 1.F.9.4.5 OTHER BIGUANIDES  
 1.F.9.5 DIABETES DRUG THERAPY  
 1.F.9.6 DIABETES THERAPY  
 1.F.9.7 DIABETES, RADIOGRAPHY  
 1.F.9.8 DIABETES, SURGERY  
 1.F.9.9 DIABETES, MORTALITY  
 1.F.10 DIABETES, EXPERIMENTAL  
 1.F.10.1 DIABETES, CHEMICALLY INDUCED  
 1.F.10.2 ALLOXAN DIABETES  
 1.F.10.2.1 ALLOXAN DIABETES, BLOOD  
 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY  
 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY  
 1.F.10.2.4 ALLOXAN DIABETES, METABOLISM  
 1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY  
 1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY  
 1.F.11 DIABETES, VETERINARY  
 1.F.12 DIABETES, HISTORY  
 2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS  
 2.A ENDOCRINE PANCREAS  
 2.A.1 ISLETS (SEE SEC. 1.A)  
 2.A.2 INSULIN (SEE SEC. 1.C)  
 2.A.3 GLUCAGON (SEE SEC. 1.D)  
 2.B ADRENAL GLANDS  
 2.B.1 ADRENAL CORTEX  
 2.B.2 ADRENAL CORTEX HORMONES  
 2.B.2.1 GLUCOCORTICOIDS  
 2.B.2.1.1 CORTISONE  
 2.B.2.1.2 HYDROCORTISONE  
 2.B.2.1.3 OTHER GLUCOCORTICOIDS  
 2.B.2.2 MINERALOCORTICOIDS  
 2.B.3 ADRENAL MEDULLA  
 2.B.3.1 EPINEPHRINE  
 2.B.3.2 NOREPINEPHRINE  
 2.B.4 ADRENALECTOMY  
 2.B.5 ADRENAL DISORDERS  
 2.C THYROID GLAND  
 2.C.1 THYROID HORMONES  
 2.C.2 THYROID ANTAGONISTS  
 2.C.3 THYROID DISORDERS  
 2.D PARATHYROID GLANDS  
 2.E PITUITARY GLAND  
 2.E.1 PITUITARY HORMONES, ANTERIOR  
 2.E.1.1 CORTICOTROPIN  
 2.E.1.2 SOMATOTROPIN  
 2.E.1.3 THYROTROPIN  
 2.E.1.4 GONADOTROPINS, PITUITARY  
 2.E.2 PITUITARY HORMONES, POSTERIOR  
 2.E.3 PITUITARY HORMONES, INTERMEDIATE  
 2.E.4 PITUITARY HORMONE RELEASING FACTORS  
 2.E.5 HYPOPHYSECTOMY  
 2.E.6 PITUITARY DISORDERS  
 2.F GONADS  
 2.F.1 OVARY  
 2.F.2 TESTIS  
 2.F.3 SEX HORMONES  
 2.F.3.1 ANDROGENS  
 2.F.3.2 ESTROGENS  
 2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES  
 2.F.3.3.1 CORPUS LUTEUM HORMONES  
 2.F.3.3.2 PROGESTATIONAL HORMONES  
 2.F.3.4 CONTRACEPTIVES, ORAL  
 2.F.4 GONADAL DISORDERS  
 2.G OTHER ENDOCRINES AND RELATED TERMS  
 2.G.1 ENDOCRINE GLANDS  
 2.G.2 HORMONES  
 2.G.2.1 GASTROINTESTINAL HORMONES  
 2.G.2.2 PROSTAGLANDINS  
 2.G.2.3 HORMONES, ECTOPIC  
 2.G.2.4 PLACENTAL HORMONES  
 2.G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES  
 2.G.3 CHROMAFFIN SYSTEM  
 2.G.4 PINEAL BODY  
 2.G.5 PITUITARY-ADRENAL SYSTEM  
 2.G.6 SECRETORY RATE



## MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE  
ACIDOSIS  
ACIDOSIS, DIABETIC  
ACROMEGALY  
ADDISON'S DISEASE  
ADRENAL CORTIX HORMONES  
ADRENAL GLAND HYPERFUNCTION  
ADRENAL GLAND HYPOFUNCTION  
ADRENAL GLANDS  
ADRENAL MEDULLA  
ADRENALECTOMY  
ADRENOGENITAL SYNDROME

ALDOSTERONE  
ALLOXAN DIABETES  
BLOOD  
DRUG THERAPY  
ENZYMOLGY  
METABOLISM  
PATHOLOGY  
PHYSIOPATHOLOGY

AMNIOCENTESIS  
ANABOLIC STEROIDS  
ANDROGENS  
ANDROSTERONE

ANTI-DIABETICS  
APGAR SCORE  
ARTERIOSCLEROSIS  
BETAMETHASONE  
BIGUANIDES  
BLOOD SUGAR

ANALYSIS  
BIOSYNTHESIS  
METABOLISM  
PHARMACODYNAMICS

CALCITONIN  
CARBUTAMIDE  
CHLORMADINONE  
CHLOROTRIANISINE  
CHLORPROPAMIDE  
CHOLECYSTOKININ  
CHOLESTEROL, DIETARY  
CHROMAFFIN SYSTEM  
CONTRACEPTIVES, ORAL  
CORONARY DISEASE  
CORPUS LUTEUM  
CORPUS LUTEUM HORMONES  
CORTICOSTERONE  
CORTICOTROPIN  
CORTICOTROPIN RELEASING HORMONE  
CORTISONE  
CRETINISM  
CUSHINGS SYNDROME  
CYCLAMATES  
CYTOCHALASIN B  
CYTOCHALASINS  
DEHYDROEPIANDROSTERONE

DESOXYCORTICOSTERONE  
DEXAMETHASONE  
DIABETES INSIPIDUS  
DIABETES MELLITUS  
BLOOD  
CHEMICALLY INDUCED  
COMPLICATIONS  
CONGENITAL  
DIAGNOSIS  
DRUG THERAPY  
ENZYMOLGY  
ETIOLOGY  
FAMILIAL & GENETIC  
HISTORY  
IMMUNOLOGY  
METABOLISM  
MORTALITY  
OCCURRENCE

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

1.F.6.1.1 ACIDOSIS, DIABETIC  
1.F.6.1.1 ACIDOSIS, DIABETIC  
2.E.6 PITUITARY DISORDERS  
2.B.5 ADRENAL DISORDERS  
2.B.2 ADRENAL CORTIX HORMONES  
2.B.5 ADRENAL DISORDERS  
2.B.5 ADRENAL DISORDERS  
2.B ADRENAL GLANDS  
2.B.3 ADRENAL MEDULLA  
2.B.4 ADRENALECTOMY  
2.F.4 GONADAL DISORDERS  
2.B.5 ADRENAL DISORDERS  
2.B.2.2 MINERALOCORTICIDS  
1.F.10.2 ALLOXAN DIABETES  
1.F.10.2.1 ALLOXAN DIABETES, BLOOD  
1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY  
1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLGY  
1.F.10.2.4 ALLOXAN DIABETES, METABOLISM  
1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY  
1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.6.8 PREGNANCY IN DIABETES

2.F.3.1 ANDROGENS

2.F.3.1 ANDROGENS

2.F.3.1 ANDROGENS

2.B.2.1.3 OTHER GLUCOCORTICIDS

1.F.9.4.1 ANTI-DIABETICS

1.F.6.8 PREGNANCY IN DIABETES

1.F.6.2 DIABETIC ANGIOPATHIES

2.B.2.1.3 OTHER GLUCOCORTICIDS

1.F.9.4.5 OTHER BIGUANIDES

1.E.1 BLOOD SUGAR

1.E.1.1 BLOOD SUGAR, ANALYSIS

1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS

1.E.1.3 BLOOD SUGAR, METABOLISM

1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS

2.C.1 THYROID HORMONES

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

2.F.3.3.2 PROGESTATIONAL HORMONES

2.F.3.2 ESTROGENS

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

2.G.2.1 GASTROINTESTINAL HORMONES

1.F.9.2.6 DIETARY FATS

2.G.3 CHROMAFFIN SYSTEM

2.F.3.4 CONTRACEPTIVES, ORAL

1.F.6.2 DIABETIC ANGIOPATHIES

2.F.1 OVARY

2.F.3.3.1 CORPUS LUTEUM HORMONES

2.B.2.1.3 OTHER GLUCOCORTICIDS

2.E.1.1 CORTICOTROPIN

2.E.4 PITUITARY HORMONE RELEASING FACTORS

2.B.2.1.1 CORTISONE

2.C.3 THYROID DISORDERS

2.B.5 ADRENAL DISORDERS

1.F.9.2.7 CYCLAMATES

1.C.2.2 INSULIN, SECRETION

1.C.2.2 INSULIN, SECRETION

2.B.2.1.3 OTHER GLUCOCORTICIDS

2.F.3.1 ANDROGENS

2.B.2.2 MINERALOCORTICIDS

2.B.2.1.3 OTHER GLUCOCORTICIDS

2.E.6 PITUITARY DISORDERS

1.F.2 DIABETES MELLITUS

1.F.3.3 DIABETES, BLOOD

1.F.10.1 DIABETES, CHEMICALLY INDUCED

1.F.6.6 OTHER COMPLICATIONS OF DIABETES

1.F.7.3 DIABETES, CONGENITAL

1.F.8.2 DIABETES, DIAGNOSIS

1.F.9.5 DIABETES DRUG THERAPY

1.F.3.2 DIABETES, ENZYMOLGY

1.F.7.2 DIABETES, ETIOLOGY

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

1.F.12 DIABETES, HISTORY

1.F.5 DIABETES, IMMUNOLOGY

1.F.3.1 DIABETES, METABOLISM

1.F.9.9 DIABETES, MORTALITY

1.F.7.1 DIABETES, OCCURRENCE

PATHOLOGY  
PHYSIOPATHOLOGY  
PREVENTION & CONTROL  
RADIOGRAPHY  
SURGERY  
THERAPY  
URINE  
VETERINARY  
DIABETES MELLITUS, JUVENILE

BLOOD  
CHEMICALLY INDUCED  
COMPLICATIONS  
CONGENITAL  
DIAGNOSIS  
DRUG THERAPY  
ENZYMOLGY  
ETIOLOGY

FAMILIAL & GENETIC  
HISTORY  
IMMUNOLOGY  
METABOLISM  
MORTALITY

OCCURRENCE  
PATHOLOGY  
PHYSIOPATHOLOGY  
PREVENTION & CONTROL  
RADIOGRAPHY  
SURGERY  
THERAPY  
URINE  
VETERINARY

DIABETIC ANGIOPATHIES  
DIABETIC COMA  
DIABETIC DIET  
DIABETIC NEPHROPATHIES  
DIABETIC NEUROPATHIES  
DIABETIC RETINOPATHY  
DIET

DIET, ATHEROGENIC  
DIET, REDUCING  
DIETARY CARBOHYDRATES  
DIETARY FATS  
DIETHYLSTILBESTROL  
DIODOTYROSINE  
DROMOSTANOLONE  
DWARFISM, PITUITARY  
DYDROGESTERONE  
ECOSYONE

ENDOCRINE DISEASES  
ENDOCRINE GLANDS  
ENDOCRINE SYSTEM (NON MESH)

EPINEPHRINE  
ESTRADIOL  
ESTRIOL  
ESTROGENIC SUBSTANCES, CONJUGATED  
ESTROGENS  
ESTRONE  
ETHINYL ESTRADIOL  
ETHISTERONE

ETHYLESTRENOL

ETHYNODIOL DIACETATE

ETIOCHOLANOLONE

EUNUCHISM  
FLUDROCORTISONE

FLUCINOLONE ACETONIDE  
FLUOROMETHOLONE  
FLUOXMYSTERONE  
FLURANDRENOLONE  
FROELICHS SYNDROME  
FSH

GASTRIN  
GASTROINTESTINAL HORMONES

1.F.6.7 DIABETES PATHOLOGY  
1.F.4 DIABETES, PHYSIOPATHOLOGY  
1.F.9.1 DIABETES, PREVENTION AND CONTROL  
1.F.9.7 DIABETES, RADIOGRAPHY  
1.F.9.8 DIABETES, SURGERY  
1.F.9.6 DIABETES THERAPY  
1.F.3.4 DIABETES, URINE  
1.F.11 DIABETES, VETERINARY  
1.F.2.1 DIABETES MELLITUS, JUVENILE

1.F.3.3 DIABETES, BLOOD  
1.F.10.1 DIABETES, CHEMICALLY INDUCED  
1.F.6.6 OTHER COMPLICATIONS OF DIABETES  
1.F.7.3 DIABETES, CONGENITAL  
1.F.8.2 DIABETES, DIAGNOSIS  
1.F.9.5 DIABETES DRUG THERAPY  
1.F.3.2 DIABETES, ENZYMOLGY  
1.F.7.2 DIABETES, ETIOLOGY

1.F.7.4 DIABETES, FAMILIAL AND GENETIC  
1.F.12 DIABETES, HISTORY  
1.F.5 DIABETES, IMMUNOLOGY  
1.F.3.1 DIABETES, METABOLISM  
1.F.9.9 DIABETES, MORTALITY

1.F.7.1 DIABETES, OCCURRENCE  
1.F.6.7 DIABETES PATHOLOGY  
1.F.4 DIABETES, PHYSIOPATHOLOGY  
1.F.9.1 DIABETES, PREVENTION AND CONTROL

1.F.9.7 DIABETES, RADIOGRAPHY  
1.F.9.8 DIABETES, SURGERY  
1.F.9.6 DIABETES THERAPY  
1.F.3.4 DIABETES, URINE

1.F.11 DIABETES, VETERINARY  
1.F.6.2 DIABETIC ANGIOPATHIES  
1.F.6.1.2 DIABETIC COMA

1.F.9.2.4 DIABETIC DIET  
1.F.6.3 DIABETIC NEPHROPATHIES  
1.F.6.4 DIABETIC NEUROPATHIES  
1.F.6.5 DIABETIC RETINOPATHY

1.F.9.2.3 DIET  
1.F.9.2.3 DIET  
1.F.9.2.3 DIET

1.F.9.2.5 DIETARY CARBOHYDRATES  
1.F.9.2.6 DIETARY FATS  
2.F.3.2 ESTROGENS  
2.C.1 THYROID HORMONES

2.C.1 ANDROGENS  
2.E.6 PITUITARY DISORDERS  
2.F.3.3.2 PROGESTATIONAL HORMONES  
2.G.2 HORMONES

2.G.1 ENDOCRINE GLANDS  
2.G.1 ENDOCRINE GLANDS  
2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.B.3.1 EPINEPHRINE  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS

2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS

2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS

2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS

2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS  
2.F.3.2 ESTROGENS

2.F.3.1 ANDROGENS  
2.F.4 GONADAL DISORDERS  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.B.2.2 MINERALOCORTICIDS

2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.F.3.1 ANDROGENS  
2.B.2.1.3 OTHER GLUCOCORTICIDS

2.E.6 PITUITARY DISORDERS  
2.E.1.4 GONADOTROPINS, PITUITARY  
2.G.2.1 GASTROINTESTINAL HORMONES  
2.G.2.1 GASTROINTESTINAL HORMONES

# MEDLARS Terms Included in Hierarchical Index

GIGANTISM  
GLIBENCLAMIDE  
GLUCAGON  
ADMINISTRATION & DOSAGE

ANALYSIS  
BLOOD  
DIAGNOSTIC USE  
METABOLISM  
PHARMACODYNAMICS  
PHYSIOLOGY  
SECRETION  
THERAPEUTIC USE  
TOXICITY  
GLUCOCORTICOID  
GLUCOSE

THERAPEUTIC USE  
GLUCOSE TOLERANCE TEST  
GLYCOSURIA  
CHEMICALLY INDUCED  
COMPLICATIONS  
DIAGNOSIS  
DRUG THERAPY  
ENZYMOLGY  
ETIOLOGY  
METABOLISM  
OCCURRENCE

GLYCOSURIA, RENAL  
GOITER, EXOPHTHALMIC  
GONADOTROPINS, CHORIONIC  
GONADOTROPINS, EQUINE  
GONADOTROPINS, PITUITARY  
GONADS  
GRAAFIAN FOLLICLE  
GROWTH DISORDERS  
HERMAPHRODITISM  
HEXESTROL  
HORMONES  
HORMONES, ECTOPIC  
HYDROCORTISONE  
11-HYDROXYCORTICOSTEROIDS  
17-HYDROXYCORTICOSTEROIDS  
HYDROXYCORTICOSTEROIDS  
HYDROXYMETHYLTESTOSTERONE  
HYDROXYPROGESTERONE

HYPERALDOSTERONISM  
HYPERGLYCEMIA

BLOOD  
CHEMICALLY INDUCED  
COMPLICATIONS  
DIAGNOSIS  
DRUG THERAPY  
ETIOLOGY  
METABOLISM  
PHYSIOPATHOLOGY  
URINE

HYPERINSULINISM  
HYPERPITUITARISM  
HYPERTHYROIDISM  
HYPOGLYCEMIA

BLOOD  
CHEMICALLY INDUCED  
COMPLICATIONS  
DIAGNOSIS  
DRUG THERAPY  
ETIOLOGY  
METABOLISM  
PHYSIOPATHOLOGY  
THERAPY

HYPOGLYCEMIC AGENTS (NON MESH)

HYPOGONADISM  
HYPOPHYSECTOMY  
HYPOPITUITARISM  
HYPOTHYROIDISM

INSULIN  
ADMINISTRATION & DOSAGE  
ADVERSE EFFECTS  
ANALYSIS  
ANTAGONISTS & INHIBITORS  
BIOSYNTHESIS  
BLOOD  
CHEM SYNTHESIS  
DIAGNOSTIC USE  
HISTORY  
ISOLATION & PURIFICATION  
METABOLISM  
PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS  
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES  
1.D. GLUCAGON  
1.D.3.1 GLUCAGON, ADMINISTRATION AND  
DOSAGE  
1.D.1.1 GLUCAGON, ANALYSIS  
1.D.1.3 GLUCAGON, BLOOD  
1.D.4.1 GLUCAGON, DIAGNOSTIC USE  
1.D.1.2 GLUCAGON, METABOLISM  
1.D.3.2 GLUCAGON, PHARMACODYNAMICS  
1.D.2.1 GLUCAGON, PHYSIOLOGY  
1.D.2.2 GLUCAGON, SECRETION  
1.D.4.2 GLUCAGON, THERAPEUTIC USE  
1.D.3.3 GLUCAGON, TOXICITY  
2.B.2.1 GLUCOCORTICIDS

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE  
1.E.2 GLUCOSE TOLERANCE TEST  
1.E.4 GLYCOSURIA  
1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED  
1.E.4.2 GLYCOSURIA, COMPLICATIONS  
1.E.4.3 GLYCOSURIA, DIAGNOSIS  
1.E.4.4 GLYCOSURIA, DRUG THERAPY  
1.E.4.5 GLYCOSURIA, ENZYMOLOGY  
1.E.4.6 GLYCOSURIA, ETIOLOGY  
1.E.4.7 GLYCOSURIA, METABOLISM  
1.E.4.8 GLYCOSURIA, OCCURRENCE  
1.E.5 GLYCOSURIA, RENAL

2.C.3 THYROID DISORDERS  
2.G.2.4 PLACENTAL HORMONES  
2.G.2.4 PLACENTAL HORMONES  
2.E.1.4 GONADOTROPINS, PITUITARY  
2.F. GONADS  
2.F.1 OVARY  
2.E.6 PITUITARY DISORDERS  
2.F.4 GONADAL DISORDERS  
2.F.3.2 ESTROGENS  
2.G.2 HORMONES  
2.G.2.3 HORMONES, ECTOPIC  
2.B.2.1.2 HYDROCORTISONE  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.F.3.1 ANDROGENS  
2.B.2.1.3 OTHER GLUCOCORTICIDS  
2.F.3.3.2 PROGESTATIONAL HORMONES  
2.B.5 ADRENAL DISORDERS  
1.E.3 HYPERGLYCEMIA  
1.E.3.1 HYPERGLYCEMIA, BLOOD  
1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED  
1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS  
1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS  
1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY  
1.E.3.6 HYPERGLYCEMIA, ETIOLOGY  
1.E.3.7 HYPERGLYCEMIA, METABOLISM  
1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY  
1.E.3.9 HYPERGLYCEMIA, URINE  
1.C.4 HYPERINSULINISM  
2.E.6 PITUITARY DISORDERS  
2.C.3 THYROID DISORDERS  
1.E.6 HYPOGLYCEMIA  
1.E.6.1 HYPOGLYCEMIA, BLOOD  
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED  
1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS  
1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS  
1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY  
1.E.6.6 HYPOGLYCEMIA, ETIOLOGY  
1.E.6.7 HYPOGLYCEMIA, METABOLISM  
1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY  
1.E.6.9 HYPOGLYCEMIA, THERAPY  
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED  
2.F.4 GONADAL DISORDERS  
2.E.5 HYPOPHYSECTOMY  
2.E.6 PITUITARY DISORDERS  
2.C.3 THYROID DISORDERS

1.C. INSULIN  
1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE  
1.C.3.3 INSULIN, ADVERSE EFFECTS  
1.C.1.2 INSULIN, ANALYSIS  
1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS  
1.C.1.4 INSULIN, BIOSYNTHESIS  
1.C.1.6 INSULIN, BLOOD  
1.C.1.3 INSULIN, CHEMICAL SYNTHESIS  
1.C.7.1 INSULIN, DIAGNOSTIC USE  
1.C.8 INSULIN, HISTORY  
1.C.1.1 INSULIN, ISOLATION AND PURIFICATION  
1.C.1.5 INSULIN, METABOLISM  
1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY  
SECRETION  
THERAPEUTIC USE  
URINE  
INSULIN ANTIBODIES  
INSULIN COMA  
INSULIN, GLOBIN ZINC  
INSULIN, ISOPHANE  
INSULIN, LENTE  
INSULIN, PROTAMINE ZINC  
INSULIN RESISTANCE  
INVERTEBRATE HORMONES  
ISLANDS OF LANGERHANS  
ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES

17-KETOSTEROIDS

KIMMELSTIEL-WILSON SYNDROME

KLINEFELTERS SYNDROME

LEYDIG CELL TUMOR

LEYDIG CELLS

LH

LH-FSH RELEASING HORMONE

LYNENSTENOL

MEDROXYPROGESTERONE

MELATONIN

MESTRANOL

METHEXAMIDE

METFORMIN

METHANDROSTENOLONE

METHYLPREDNISOLONE

METHYLTESTOSTERONE

METHYLTHIOURACIL

MINERALOCORTICIDS

MNH

MYXEDEMA

NANDROLONE

NOREPINEPHRINE

NORETHANDROLONE

NORETHINDRONE

NORETHYNODREL

NORMETHANDROLONE

OBESITY IN DIABETES

OVARIAN CYSTS

OVARIAN DISEASES

OVARIAN NEOPLASMS

OVARY

1.C.2.1 INSULIN, PHYSIOLOGY  
1.C.2.2 INSULIN, SECRETION  
1.F.9.3.2 INSULIN, THERAPEUTIC USE  
1.C.1.7 INSULIN, URINE  
1.C.5 INSULIN ANTIBODIES  
1.C.4.1 INSULIN COMA  
1.F.9.3.2 INSULIN, THERAPEUTIC USE  
1.F.9.3.2 INSULIN, THERAPEUTIC USE  
1.F.9.3.2 INSULIN, THERAPEUTIC USE  
1.F.9.3.2 INSULIN, THERAPEUTIC USE  
1.C.6 INSULIN RESISTANCE  
2.G.2.3 HORMONES, ECTOPIC  
1.A. ISLANDS OF LANGERHANS  
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY  
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.4 ISLANDS OF LANGERHANS,  
PHARMACOLOGY RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY  
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY  
RELATED

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY  
RELATED

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY  
RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY  
RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY  
RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY  
RELATED

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY  
RELATED

2.G.2.6 JUVENILE HORMONES

2.B.2.1.3 OTHER GLUCOCORTICIDS

1.F.6.3 DIABETIC NEPHROPATHIES

2.F.4 GONADAL DISORDERS

2.F.4 GONADAL DISORDERS

2.F.2 TESTIS

2.E.1.4 GONADOTROPINS, PITUITARY

2.E.1.4 GONADOTROPINS, PITUITARY

2.F.3.3.2 PROGESTATIONAL HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

2.E.3 PITUITARY HORMONES, INTERMEDIATE

2.F.3.2 ESTROGENS

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

1.F.9.4.5 OTHER BIGUANIDES

2.F.3.1 ANDROGENS

2.B.2.1.3 OTHER GLUCOCORTICIDS

2.F.3.1 ANDROGENS

2.C.2 THYROID ANTAGONISTS

2.B.2.2 MINERALOCORTICIDS

2.E.3 PITUITARY HORMONES, INTERMEDIATE

2.C.3 THYROID DISORDERS

2.F.3.1 ANDROGENS

2.B.3.2 NOREPINEPHRINE

2.F.3.1 ANDROGENS

2.F.3.3.2 PROGESTATIONAL HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

2.F.3.1 ANDROGENS

1.F.9.2.1 OBESITY IN DIABETES

2.F.1 OVARY

2.F.4 GONADAL DISORDERS

2.F.4 GONADAL DISORDERS

2.F.1 OVARY

# MEDLARS Terms Included in Hierarchical Index

PATHOLOGY	1.B.5 PANCREAS, PATHOLOGY RELATED
PHYSIOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
PHYSIOPATHOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
SECRETION	1.B.3 PANCREAS, PHYSIOLOGY RELATED
TRANSPLANTATION	1.B.6.1 PANCREAS, TRANSPLANTATION
PANCREATECTOMY	1.B.6.2 PANCREATECTOMY
PANCREATIC DISEASES	1.B.5 PANCREAS, PATHOLOGY RELATED
PANCREATIC EXTRACTS	1.B.4 PANCREAS, PHARMACOLOGY RELATED
PANCREATIC HORMONES	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
PANCREOZYMIN	2.G.2.1 GASTROINTESTINAL HORMONES
PARAMETHASONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PARATHYROID DISEASES	2.D PARATHYROID GLANDS
PARATHYROID GLANDS	2.D PARATHYROID GLANDS
PARATHYROID HORMONE	2.D PARATHYROID GLANDS
PENFORMIN	1.F.9.4.4 PHENFORMIN
PINEAL BODY	2.G.4 PINEAL BODY
PITUITARY-ADRENAL SYSTEM	2.G.5 PITUITARY-ADRENAL SYSTEM
PITUITARY GLAND	2.E PITUITARY GLAND
PITUITARY HORMONE RELEASING HORMONES	2.E.4 PITUITARY HORMONE RELEASING FACTORS
PITUITARY HORMONES, ANTERIOR	2.E.1 PITUITARY HORMONES, ANTERIOR
PITUITARY HORMONES, POSTERIOR	2.E.2 PITUITARY HORMONES, POSTERIOR
PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREDNISONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES
PREGNANEDIOL	2.F.3.3.2 PROGESTATIONAL HORMONES
PREGNANETRIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS
	2.F.3.3.2 PROGESTATIONAL HORMONES
PREGNENOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROINSULIN	1.C.1.4 INSULIN, BIOSYNTHESIS
PROLACTIN	2.E.1.4 GONADOTROPINS, PITUITARY
PROPYLTHIOURACIL	2.C.2 THYROID ANTAGONISTS
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS
PUBERTY, PRECOCIOUS	2.F.4 GONADAL DISORDERS
RECEPTORS, HORMONE	2.G.2 HORMONES
RELAXIN	2.G.2.5 RELAXIN
SACCHARIN	1.F.9.2.8 SACCHARIN
SECRETIN	2.G.2.1 GASTROINTESTINAL HORMONES
SECRETORY RATE	2.G.6 SECRETORY RATE
SERTOLI CELL TUMOR	2.F.4 GONADAL DISORDERS
SERTOLI CELLS	2.F.2 TESTIS
SEX DIFFERENTIATION DISORDERS	2.F.4 GONADAL DISORDERS
SEX HORMONES	2.F.3 SEX HORMONES
SHEEHAN'S SYNDROME	2.E.6 PITUITARY DISORDERS
SKIN ULCER	1.F.6.2 DIABETIC ANGIOPATHIES
SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN RELEASING HORMONE	2.E.1.2 SOMATOTROPIN
STANOLONE	2.F.3.1 ANDROGENS
STANZOLOL	2.F.3.1 ANDROGENS
TESTICULAR DISEASES	2.F.4 GONADAL DISORDERS
TESTICULAR FEMINIZATION	2.F.4 GONADAL DISORDERS
TESTICULAR NEOPLASMS	2.F.4 GONADAL DISORDERS
TESTIS	2.F.2 TESTIS
TESTOSTERONE	2.F.3.1 ANDROGENS
THIOCYANATES	2.C.2 THYROID ANTAGONISTS
THIOURACIL	2.C.2 THYROID ANTAGONISTS
THIOUREA	2.C.2 THYROID ANTAGONISTS
THYROID ANTAGONISTS	2.C.2 THYROID ANTAGONISTS
THYROID CRISIS	2.C.3 THYROID DISORDERS
THYROID GLAND	2.C THYROID GLAND
THYROID HORMONES	2.C.1 THYROID HORMONES
THYROIDITIS	2.C.3 THYROID DISORDERS
THYROIDITIS, LYMPHOMATOUS	2.C.3 THYROID DISORDERS
THYRONINE	2.C.1 THYROID HORMONES
THYROTROPIN	2.E.1.3 THYROTROPIN
THYROTROPIN RELEASING HORMONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THYROXINE	2.C.1 THYROID HORMONES
TOLAZAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
TOLBUTAMIDE	1.F.9.4.2 TOLBUTAMIDE
TRIAMCINOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
TRIODOTHYRONINE	2.C.1 THYROID HORMONES
TURNER'S SYNDROME	2.F.4 GONADAL DISORDERS
VASOPRESSIN	2.E.2 PITUITARY HORMONES, POSTERIOR
VIRILISM	2.F.4 GONADAL DISORDERS
WATERHOUSE-FRIDERICHSEN SYNDROME	2.B.5 ADRENAL DISORDERS



## SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

### 1.A ISLANDS OF LANGERHANS

[INTRAPORTAL ADMINISTRATION OF ISLANDS OF LANGERHANS TO DIABETIC RATS. COMPARISON OF THE EFFECTS OF GLUCOSE ADMINISTERED BY THE ORAL OR PARENTERAL ROUTE ON GLUCOSE TOLERANCE AND BLOOD INSULIN (PROCEEDINGS)] Vialeto B, Vague P *Diabete Metab* 2: 150, Sep 76 (Fre) DL/77MAY102

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## I.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS

## I.C.3.3 INSULIN, ADVERSE EFFECTS

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### 1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)

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#### 1.D.2.1 GLUCAGON, PHYSIOLOGY

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# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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## 1.D.3.3 GLUCAGON, TOXICITY

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### 1.D.4.1 GLUCAGON, DIAGNOSTIC USE

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**[FORMULATION OF A PROPOSAL TO CLASSIFY ACUTE PANCREATITIS ACCORDING TO THE EFFECTS OF A PRECISE COMPARATIVE EVALUATION OF THE THERAPEUTIC EFFICACY OF DIFFERENT DRUGS]** Di Maccio G, Pappalardo G *Ann Ital Chir* 48: 209-13, 1976 (Ita) DL/77MAY504

# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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# Diabetes Literature—Hierarchical Index

## 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- EFFECTS OF ASPARTAME IN YOUNG PERSONS DURING WEIGHT REDUCTION.** Knopp RH, Brandt K, Arky RA *J Toxicol Environ Health* 2: 417-28, Nov 76 (Eng) DL/77MAY225
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- [STUDIES ON GLUCOSE LEVELS OBTAINED ON THE AUTOANALYZER I (HOFFMAN) AND CRITICAL LEVELS OF GLUCOSE TOLERANCE TESTS (AUTHORS TRANSL.)]** Arao M, Matsumiya K *Jpn J Clin Pathol* 24: 905-7, 1976 (Jpn) DL/77MAY237
- [SUGARS NATURALLY LABELLED WITH <sup>13</sup>C. THEIR VALUE FOR METABOLIC STUDIES IN MAN]** Lefebvre P, Mosora F, Lacroix M, Luyckx A, Pirnay F, Duchesne J *Journ Annu Diabetol Hotel Dieu* 187-94, May 76 (Fre) DL/77MAY246
- [DEVELOPMENT OF AN AUTOMATIC SYSTEM OF INSULIN INFUSION CONTROLLED BY BLOOD SUGAR, ITS SYSTEM FOR THE DETERMINATION OF GLUCOSE AND CONTROL ALGORITHMS]** Clemens AH, Chang PH, Myers RW *Journ Annu Diabetol Hotel Dieu* 269-78, May 76 (Fre) DL/77MAY254
- [THE ARTIFICIAL ENDOCRINE PANCREAS IN CLINICAL MEDICINE AND IN RESEARCH]** Pfeiffer EF, Beischer W, Thum C, Clemens AH *Journ Annu Diabetol Hotel Dieu* 279-96, May 76 (Fre) [39 ref.] DL/77MAY255
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- LUTEINIZING HORMONE RESPONSES TO LUTEINIZING HORMONE RELEASING HORMONE, AND GROWTH HORMONE AND CORTISOL RESPONSES TO INSULIN INDUCED HYPOGLYCAEMIA IN FUNCTIONAL SECONDARY AMENORRHOEA.** Hirvonen E, Seppala M, Karonen SL, Adlercreutz H *Acta Endocrinol (Kbh)* 84: 225-36, Feb 77 (Eng) DL/77MAY452
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- A MODIFIED O-TOLUIDINE REAGENT FOR GLUCOSE ANALYSIS.** Abraham CV *Clin Chim Acta* 70: 209-11, 1 Jul 76 (Eng) \*DL/77MAY548
- BIOCHEMICAL PARAMETERS OF GUINEA PIG PERILYMPH SAMPLED ACCORDING TO SCALA AND FOLLOWING SOUND PRESENTATION.** Gershbein LL, Manshio DT, Shurrager PS *Environ Health Perspect* 8: 157-64, Aug 74 (Eng) \*DL/77MAY555
- PROCEEDINGS: THE BIOCHEMICAL AND HEMATOLOGICAL CHANGES OF BLOOD IN SHR AND THE EFFECTS OF DIFFERENT KINDS OF DIETS UPON THOSE FINDINGS.** Ueda H, Takahashi H, Kobayashi H, Sakamoto A, Kaneko K *Jpn Heart J* 17: 348, May 76 (Eng) \*DL/77MAY588
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- [INTENSIVE TREADMILL LOAD OF CHILDREN IN PRESCHOOL AGE]** Pannier R, Pauler D, Tuch E, Heumann W *Kinderarztl Prax* 44: 201-9, May 76 (Ger) \*DL/77MAY592
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### 1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS

### 1.E.1.3 BLOOD SUGAR, METABOLISM

# I.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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# Diabetes Literature—Hierarchical Index

## 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- 1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS**
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# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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## 1.E.4.4 GLYCOSURIA, DRUG THERAPY

## 1.E.4.5 GLYCOSURIA, ENZYMOLOGY

# 1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

## 1.E.4.6 GLYCOSURIA, ETIOLOGY

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**[FUNCTIONAL HYPOGLYCEMIA: A TRIAL OF TREATMENT WITH PHENYTOIN. EFFECTS ON BLOOD SUGAR AND BLOOD INSULIN CURVES]** Mirouze J, Collard F, Thuan CD *Therapie* 31: 605-13, Sep-Oct 76 (Fre) DL/77MAY413

**NEONATAL HYPOGLYCEMIA RESULTING FROM ISLET CELL ADENOMATOSIS. SUCCESSFUL TREATMENT WITH TOTAL PANCREATECTOMY.** Habbick BF, Cram RW, Miller KR *Am J Dis Child* 131: 210-2, Feb 77 (Eng) DL/77MAY478

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**[HYPOGLYCEMIA AND ACIDOSIS AFTER ALCOHOL DRINKING]** Endtz LJ *Ned Tijdschr Geneesk* 121: 35-6, 1 Jan 77 (Dut) DL/77MAY332

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**THE GENETIC HETEROGENEITY OF DIABETES : HISTOCOMPATIBILITY ANTIGENS (HLA) IN FAMILIES WITH MATURITY-ONSET TYPE DIABETES OF THE YOUNG (MODY) AND JUVENILE, INSULIN-DEPENDENT DIABETES (JID) [PROCEEDINGS].** Barbosa J, Noreen H, Goetz FC, Yunis EJ *Diabete Metab* 2: 160, Sep 76 (Eng) DL/77MAY114

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- [MODERN TRENDS IN THE TREATMENT OF DIABETIC RETINOPATHY (AUTHORS TRANSL.)] Freyler H *Wien Klin Wochenschr* 89: 101-6, 10 Feb 77 (Ger) [51 ref.] DL/77MAY441
- [MORPHOLOGICAL AND BIOCHEMICAL STUDIES ON THE RETINAL BLOOD VESSELS OF STREPTOZOTOCIN DIABETIC RATS. (2) INFLUENCE OF BOVINE GROWTH HORMONE ADMINISTRATION (AUTHORS TRANSL.)] Tsuda N *Acta Soc Ophthalmol Jpn* 80: 703-11, 10 Sep 76 (Jpn) DL/77MAY474

## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

- PARTIAL RECOVERY FROM PANCURONIUM NEUROMUSCULAR BLOCKADE FOLLOWING HYDROCORTISONE ADMINISTRATION.** Meyers EF *Anesthesiology* 46: 148-50, Feb 77 (Eng) DL/77MAY489
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- 1.F.6.6 OTHER COMPLICATIONS OF DIABETES**
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- DIABETIC CYSTOPATHY. III: URINARY BLADDER DYSFUNCTION IN RELATION TO BACTERIURIA.** Moller CF *Dan Med Bull* 23: 287-91, Dec 76 (Eng) DL/77MAY50
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- DIABETES MELLITUS ASSOCIATED WITH CHRONIC DIARRHOEA IN AN INFANT.** Olambiwonnu NO, Johnson A, Adeniyi A, Adeyokunnu A, Attah EB *East Afr Med J* 53: 407-10, Jul 76 (Eng) DL/77MAY57
- [DENTAL SURGERY AND THE MARGINAL PERIODONTIUM]** Maeglin B *Dtsch Zahnärztl Z* 32: 3-6, Jan 77 (Ger) DL/77MAY58
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- HYPOLIPIDEMIC EFFECTS OF METFORMIN IN HYPERPREBETALIPROTEINEMIA.** Fedele D, Tiengo A, Nosadini R, Marchiori E, Briani G, Garotti MC, Muggeo M *Diabete Metab* 2: 127-33, Sep 76 (Eng) DL/77MAY95
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- [HYPOGLYCEMIA WHILE DRIVING: RESULTS OF AN INVESTIGATION OF THE KNOWLEDGE OF 200 INSULIN-DEPENDENT DRIVERS (PROCEEDINGS)]** Pirart J *Diabete Metab* 2: 149, Sep 76 (Fre) DL/77MAY100
- HLA ANTIGENS, ESPECIALLY B8 AND BW15, IN PATIENTS WITH JUVENILE DIABETES MELLITUS, COELIAC DISEASE, AND BOTH OF THESE DISEASES [PROCEEDINGS].** Koivisto VA, Kuitunen P, Tilikainen A, Akerblom HK *Diabete Metab* 2: 161, Sep 76 (Eng) DL/77MAY117
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- [CORONARY INSUFFICIENCY. HYPERLIPEMIA AND DIABETES]** Pometta D *Journ Annu Diabetol Hotel Dieu* 249-56, May 76 (Fre) [19 ref.] DL/77MAY252
- [INFECTION AND IMMUNOREACTIVITY WITH REFERENCE TO INSULIN]** Czyzyk A, Rogala H, Symonides-Lawicka A, Laweck J, Beischer W, Thum C, Clemens AH *Journ Annu Diabetol Hotel Dieu* 45-58, May 76 (Fre) DL/77MAY266
- [LACTIC ACIDOSIS. APROPOS OF 42 CASES COLLECTED AT A RESUSCITATION SERVICE]** Larcen A, Lambert H *Journ Annu Diabetol Hotel Dieu* 99-133, May 76 (Fre) [236 ref.] DL/77MAY272
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# 1.F DIABETES

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- MEDICAL GRAND ROUNDS FROM THE WEST VIRGINIA UNIVERSITY MEDICAL CENTER: CONTROVERSY IN INTERNAL MEDICINE: STRICT VERSUS RELAXED THERAPY OF DIABETES MELLITUS.** Weiss RB *W Va Med J* 73: 54-9, Mar 77 (Eng) DL/77MAY437
- [CHARACTERISTIC FEATURES OF ISCHAEMIC STROKES IN YOUNG ADULTS (AUTHORS TRANSL.)]** Turnheim M, Havelec L, Heiss WD, Summer K *Wien Klin Wochenschr* 89: 106-10, 10 Feb 77 (Ger) DL/77MAY442
- [DIABETES MELLITUS AND FEMORAL FRACTURES IN CLOSE PROXIMITY TO THE HIP JOINT IN MULTIMORBID PATIENTS OF OLD AGE (AUTHORS TRANSL.)]** Kopp P *ZFA [Dresden]* 31: 559-66, 1976 (Ger) DL/77MAY445
- [GIANT CONDYLOMATA ACUMINATA (BUSCHKE-LOWENSTEIN) ON THE BASIS OF PYODERMA FISTULANS SINIFICA]** Noster U, Schlösser GA, Janner M *Z Hautkr* 52: 45-9, 15 Jan 77 (Ger) DL/77MAY447
- [THE RISK OF HEART DISEASE IN VARIOUS PSYCHIATRIC DISEASES]** Schwalb H, van Eimeren W, Friedrich HV *Z Kardiol* 65: 1115-23, Dec 76 (Ger) DL/77MAY448
- [SPECIAL FEATURES OF NURSING C-RE FOR PATIENTS WITH DIABETES COMPLICATIONS]** Greganova V *Zdrav Prac* 26: 655-8, Nov 76 (Slo) DL/77MAY449
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- THE PATHOPHYSIOLOGY AND CLINICAL CHARACTERISTICS OF SEVERE HYPOPHOSPHATEMIA.** Knoche JP *Arch Intern Med* 137: 203-20, Feb 77 (Eng) DL/77MAY515
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- DIABETES MELLITUS IN THE BOVINE.** Mostaghni K, Ivoghli B *Cornell Vet* 67: 24-8, Jan 77 (Eng) DL/77MAY44
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- EVALUATION OF DIFFERENT APPROACHES TO OBSTETRIC CARE: PART I.** Chalmers I, Lawson JG, Turnbull AC *Br J Obstet Gynaecol* 83: 921-9, Dec 76 (Eng) DL/77MAY6
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## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

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#### 1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

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##### 1.F.7.3 DIABETES, CONGENITAL

##### 1.F.7.4 DIABETES, FAMILIAL AND GENETIC

**[DIABETES OF IDIOPATHIC HAEMOCHROMATOSIS AND COMMON DIABETES MELLITUS. RESULTS OF A PROSPECTIVE STUDY OF 97 FAMILIES WITH IDIOPATHIC HAEMOCHROMATOSIS (AUTHORS TRANSL)]** Simon M, Alexandre JL, Scordia C, Hespel JP, Bourel M *Diabete Metab* 2: 113-8, Sep 76 (Fre) DL/77MAY92

**[DYNAMIC EPIDEMIOLOGY OF DIABETES MELLITUS (AUTHORS TRANSL)]** Pavel I, Sdrobici D *Diabete Metab* 2: 123-5, Sep 76 (Fre) DL/77MAY94

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**THE GENETIC HETEROGENEITY OF DIABETES: HISTOCOMPATIBILITY ANTIGENS (HLA) IN FAMILIES WITH MATURITY-ONSET TYPE DIABETES OF THE YOUNG (MODY) AND JUVENILE, INSULIN-DEPENDENT DIABETES (JID) [PROCEEDINGS].** Barbosa J, Noreen H, Goetz FC, Yunis EJ *Diabete Metab* 2: 160, Sep 76 (Eng) DL/77MAY114

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**[CORONARY INSUFFICIENCY, HYPERLIPIDEMIA AND DIABETES]** Pometta D *Journ Annu Diabetol Hotel Dieu* 249-56, May 76 (Fre) [19 ref.] DL/77MAY252

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**GLUCOSE TOLERANCE IN SOME CUTANEOUS COMPLICATIONS OF DIABETES.** Kader MM, Hafiez AA, El-Mofty AM, Nada MM, Mousa AM *Indian J Dermatol* 21: 1-5, Oct 75 (Eng) DL/77MAY140

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### 1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

### 1.F.8.2 DIABETES, DIAGNOSIS

**[DETERMINATION OF SERUM INSULIN AND ITS SIGNIFICANCE IN DIAGNOSIS AND MANAGEMENT OF DIABETES MELLITUS]** Tarui S *Clin Endocrinol (Tokyo)* 24: 865-70, Sep 76 (Jpn) DL/77MAY36

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### 1.F.9.1 DIABETES, PREVENTION AND CONTROL

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### 1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

#### 1.F.9.2.1 OBESITY IN DIABETES

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**LABORATORY ANIMALS EXHIBITING OBESITY AND DIABETES SYNDROMES.** Herberg L, Coleman DL *Metabolism* 26: 59-99, Jan 77 (Eng) DL/77MAY304

**[GROWTH HORMONE CONTENT OF BLOOD IN HEALTH ADOLESCENTS AND IN THOSE WITH EXCESSIVE WEIGHT AND HEREDITARY DIABETES MELLITUS ACCORDING TO A STANDARD GLUCOSE TOLERANCE TEST]** Morozova TP, Kolesov DV *Pediatruiia* 44-6, Sep 76 (Rus) DL/77MAY358

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**[HYPOGLYCEMIA AND ACIDOSIS AFTER ALCOHOL DRINKING]** Endtz LJ *Ned Tijdschr Geneesk* 121: 35-6, 1 Jan 77 (Dut) DL/77MAY332

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**EFFECT OF DIETARY CONTROL AND EXERCISE TRAINING ON DAILY FOOD INTAKE**

# I.F DIABETES

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[RECENT ACQUISITIONS ON SWEETENING AGENTS. APPLICATIONS TO THE DIABETIC DIET] Heraud G, Roux E *Journ Annu Diabetol Hotel Dieu* 169-85, May 76 (Fre) [77 ref.] DL/77MAY245

## I.F.9.2.8 SACCHARIN

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## I.F.9.3 DIABETES, INSULIN AND THERAPY

### I.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

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INSULIN IN THE MANAGEMENT OF THE DIABETIC SURGICAL PATIENT: CONTINUOUS INTRAVENOUS INFUSION VS SUBCUTANEOUS ADMINISTRATION. Taitelman U, Reece EA, Bessman AN *JAMA* 237: 658-60, 14 Feb 77 (Eng) DL/77MAY232

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[DEVELOPMENT OF AN AUTOMATIC SYSTEM OF INSULIN INFUSION CONTROLLED BY BLOOD SUGAR, ITS SYSTEM FOR THE DETERMINATION OF GLUCOSE AND CONTROL ALGORITHMS] Clemens AH, Chang PH, Myers RW *Journ Annu Diabetol Hotel Dieu* 269-78, May 76 (Fre) DL/77MAY254

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- [INSULIN INFUSION CONTROLLED BY CONTINUOUS BLOOD SUGAR RECORDING] Mirouze J, Selam JL, Phan Tan Chi P *Journ Annu Diabetol Hotel Dieu* 303-12, May 76 (Fre) DL/77MAY256
- [VALUE OF FRACTIONATION IN DIABETOLOGY THERAPY AND PARTICULARLY FOR GLIBENCLAMIDE] Tutin M *Journ Annu Diabetol Hotel Dieu* 345-7, May 76 (Fre) DL/77MAY262
- [INTRAVENOUS ADMINISTRATION OF INSULIN TO DIABETIC PATIENTS DURING SURGICAL INTERVENTIONS] Iatsenko VN, Muravich VV *Khirurgia (Mosk)* 151-5, Jun 76 (Rus) DL/77MAY278
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- [DIABETES: NEW DRUGS] Codaccioni JL, Fontaine G *Sem Hop Paris* 52: 1243-5, 23 May 76 (Fre) DL/77MAY403
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- 1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY
- 1.F.9.4.1 ANTIDIABETICS
- 1.F.9.4.2 TOLBUTAMIDE
- DRUG INTERACTIONS WITH ORAL SULPHONYLUREA HYPOGLYCAEMIC DRUGS. Hansen JM, Christensen LK *Drugs* 13: 24-34, Jan 77 (Eng) [71 ref.] DL/77MAY55
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## Diabetes Literature—Hierarchical Index

### 1.F DIABETES

**ONSET AND REVERSIBILITY OF CHANGES IN SECRETORY FUNCTION AND COMPOSITION OF ISOLATED RAT PANCREATIC ISLETS FOLLOWING LONG-TERM ADMINISTRATION OF HIGH OR LOW TOLBUTAMIDE DOSES.** Schauder P, Arends J, Frerichs H *Metabolism* 26: 9-15, Jan 77 (Eng) DL/77MAY305

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**[EFFECTS OF GLIBENCLAMIDE ON BLOOD LIPID CHANGES INDUCED BY ORAL LIPID LOAD IN DIABETIC SUBJECTS]** Ferlito S, Mangiagli P, Lunetta M *Clin Ter* 78: 363-71, 31 Aug 76 (Ita) DL/77MAY42

**CLINICAL COMPARISON BETWEEN GLIPENTIDE (STATICUM) AND GLIBENCLAMIDE IN DIABETICS.** Moncada Lorenzo E, Garcia RV, Barberia Layana JJ, Morant Ciscard JA, Calleja Canelas A *Curr Ther Res* 21: 50-7, Jan 77 (Eng) DL/77MAY46

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**[THE EFFECTS OF VARIOUS NONHORMONAL ANTIDIURETICS IN THE DOG SUBMITTED TO A WATER OR SODIUM LOAD]** Baisset A, Cotonat J, Montastruc P *Therapie* 31: 667-79, Sep-Oct 76 (Fre) DL/77MAY414

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**PHENFORMIN AS A CAUSE OF PRIMARY PULMONARY HYPERTENSION [LETTER].** Fahlen M *Br Med J* 2: 1450, 11 Dec 76 (Eng) DL/77MAY18

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**BIGUANIDES AND LACTIC ACIDOSIS [LETTER].** Alexander WD, Marples J *Lancet* 1: 191-2, 22 Jan 77 (Eng) DL/77MAY292

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**HYPOLIPIDEMIC EFFECTS OF METFORMIN IN HYPERPREBETALIPROTEINEMIA.** Fedele D, Tiengo A, Nosadini R, Marchioni E, Briani G, Garotti MC, Muggeo M *Diabete Metab* 2: 127-33, Sep 76 (Eng) DL/77MAY95

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- [RE-EVALUATION OF THE ACTION OF SALICYLATE ON GLUCOSE AND INSULIN BLOOD LEVELS IN NORMAL AND DIABETIC SUBJECTS AND POSSIBLE INTERFERENCE WITH ORAL ANTIDIABETIC THERAPY] Pitucco G, Santucci A, Caputo V, De Mattia G, Federico M *Clin Ter* 78: 227-44, 15 Aug 76 (Ita) DL/77MAY41
- CLINICAL COMPARISON BETWEEN GLIPENTIDE (STATICUM) AND GLIBENCLAMIDE IN DIABETICS. Moncada Lorenzo E, Garcia RV, Barberia Layana JJ, Morant Ciscard JA, Calleja Canelas A *Curr Ther Res* 21: 50-7, Jan 77 (Eng) DL/77MAY46
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- [SOMATOSTATIN, A NEW HORMONE (AUTHORS TRANSL.) Assan R *Diabete Metab* 2: 135-46, Sep 76 (Fre) DL/77MAY96
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- [THE IMPORTANCE OF LACTATE ACIDOSIS AS A SIDE EFFECT OF BIGUANIDE THERAPY] Forster H *Fortschr Med* 94: 2065-71, 16 Dec 76 (Ger) DL/77MAY135
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## Diabetes Literature—Hierarchical Index

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##### 1.F.10.1 DIABETES, CHEMICALLY INDUCED

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##### 1.F.10.2.1 ALLOXAN DIABETES, BLOOD

##### 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

##### 1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

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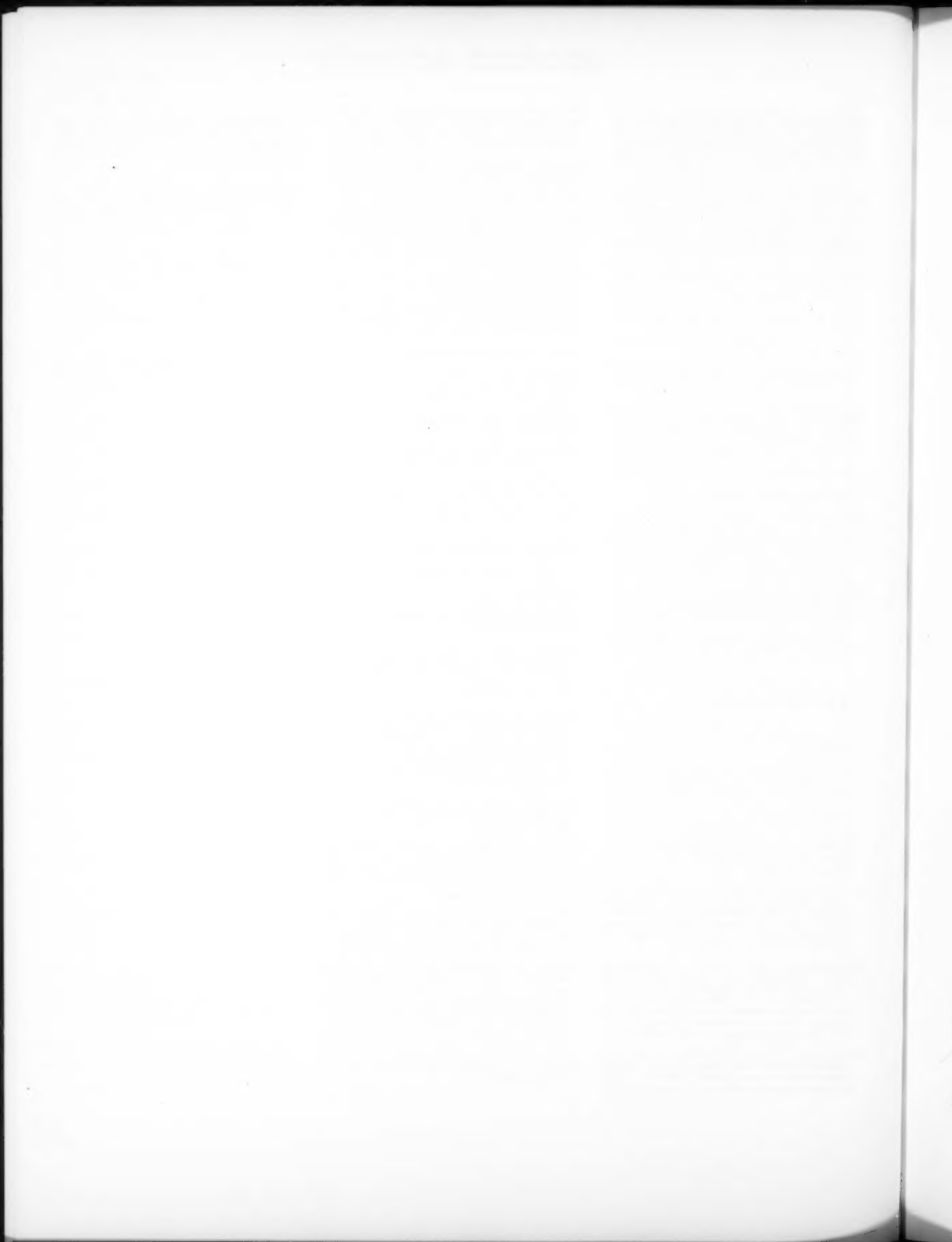
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#### 1.F.12 DIABETES, HISTORY



## SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

### 2.A ENDOCRINE PANCREAS

#### 2.A.1 ISLETS (SEE SEC. 1.A)

#### 2.A.2 INSULIN (SEE SEC. 1.C)

#### 2.A.3 GLUCAGON (SEE SEC. 1.D)

### 2.B ADRENAL GLANDS

#### 2.B.1 ADRENAL CORTEX

#### 2.B.2 ADRENAL CORTEX HORMONES

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#### 2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

##### 2.F.3.3.1 CORPUS LUTEUM HORMONES

##### 2.F.3.3.2 PROGESTATIONAL HORMONES

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## ADP

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## CARCINOMA

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## GLI

### GLI

#### SEE GLUCAGON-LIKE IMMUNOREACTIVITY

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## Diabetes Literature—Keyword Index

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### HIP JOINT

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# Diabetes Literature—Keyword Index

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## HLA

- SEE HUMAN LEUCOCYTE ANTIGEN

## HOMOGENATE SYSTEM

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# HUMAN LEUCOCYTE ANTIGEN

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THE IMPORTANCE OF HLA-B8, BW15, W3 AND B7 IN JUVENILE ONSET DIABETES MELLITUS [PROCEEDINGS]. Ludwig H, Mayr WR, Scherthaner G *Diabete Metab* 2: 157, Sep 76 (Eng) DL/77MAY105

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HLA IN MATURITY-ONSET DIABETES [PROCEEDINGS]. Sakurai T, Nabeya N, Nagaoka K, Kurahashi H, Kuno S, Nose Y, Sumitomo K, Tsuji K *Diabete Metab* 2: 159, Sep 76 (Eng) DL/77MAY110

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## Diabetes Literature—Keyword Index

**HLA ANTIGENS IN FAMILIES OF JUVENILE ONSET DIABETICS [PROCEEDINGS]** Mayr WR, Ludwig H, Scherthaner G, Eibl M *Diabetes Metab* 2: 162, Sep 76 (Eng) DL/77MAY119

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### HUMORAL

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### HUMORAL AUTOIMMUNITY

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### HYDROLYSIS

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### 3-HYDROXYBUTYRATE

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[AN ADENOMA OF THE ISLANDS OF LANGERHANS PRODUCING HYPOGLYCEMIA AND NORMAL BLOOD INSULIN ACTIVITY WHEN DETERMINED BY RADIOIMMUNOASSAY OF PERIPHERAL AND PORTAL BLOOD, BUT HAVING ELEVATED INSULIN-LIKE ACTIVITY IN PORTAL BLOOD ONLY (PROCEEDINGS)] Mirouze J, Marchal G, Orsetti A, Baldet P, Piperno M, Monnier L, Jaffiol C, Hedon L *Diabete Metab* 2: 148, Sep 76 (Fre) DL/77MAY98

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# LEUKEMIA LYMPHOCYTIC

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## Diabetes Literature—Keyword Index

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#### PLATELET

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ADULT; AUTORADIOGRAPHY; ELECTROPHORESIS, POLYACRYLAMIDE GEL; FEMALE; FIBRINOLYSIS (metabolism); HUMAN; MALE; POLYMORPHISM (GENETICS) (poisoning); SOMATOTROPIN (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP.

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## Diabetes Literature—Author Index

THYROXINE (blood); TRIIODOTHYRONINE (blood).

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(metabolism); ALBUMINS (pharmacodynamics);  
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CONTRACTION (drug effects); MYOCARDIUM  
(metabolism); NOREPINEPHRINE  
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OF STAY; PATIENTS (education); QUALITY OF  
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(analysis, ultrastructure); GASTROINTESTINAL  
HORMONES (analysis); GUINEA PIGS;  
HUMAN; IMMUNOENZYME TECHNIQS;  
INTESTINAL MUCOSA (analysis, ultrastructure);  
ISLANDS OF LANGERHANS (analysis,  
ultrastructure); MICROSCOPY, ELECTRON;  
PANCREAS (analysis, ultrastructure); UNITED  
STATES GOVERNMENT SUPPORTED, N.I.H. );  
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BRAIN CHEMISTRY; CORTICOTROPIN  
(metabolism); FSH (metabolism);  
HYPOTHALAMUS (metabolism); LH  
(metabolism); LH-FSH RELEASING HORMONE  
(metabolism); MONOGRAPH (mortality); MSH  
(metabolism); PITUITARY HORMONE  
RELEASING HORMONES (isolation &  
purification, metabolism, physiology);  
PROLACTIN (metabolism); REVIEW;  
SOMATOTROPIN (metabolism);  
THYROTROPIN RELEASING HORMONE  
(metabolism); THYROTROPIN (metabolism);  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. ); UNITED STATES  
GOVERNMENT SUPPORTED, NON-N.I.H. ).

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Ryder LP *Diabete Metab* 2: 161, Sep 76 (Eng)  
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DIABETES MELLITUS, JUVENILE (familial &  
genetic, immunology); FEMALE;  
HISTOCOMPATIBILITY ANTIGENS (analysis);  
HL-A (analysis); HUMAN; MALE.

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BROMODEOXYURIDINE (metabolism, pharmacodynamics); CELL LINE; CELLS, CULTURED; DEXAMETHASONE (pharmacodynamics); ENZYME INDUCTION (drug effects, radiation effects); HEPATOMA (enzymology); INSULIN (pharmacodynamics); LIVER NEOPLASMS (enzymology); THYMIDINE (metabolism); TYROSINE AMINOTRANSFERASE (biosynthesis); ULTRAVIOLET RAYS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ]

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[CHANGES INDUCED BY VARIOUS DRUGS (ALLOPURINOL, METFORMIN) IN VARIOUS DYSMETABOLIC COMPONENTS OF PRIMARY HYPERURICEMIA] Butturini U, Coscelli C, Zavaroni L, Lugari R, Bobbioni E *Clin Ter* 77: 529-41, 30 Jun 76 (Ita) DL/77MAY40

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ANIMAL; DOGS; ENGLISH ABSTRACT; FEMALE; GLUCAGON (therapeutic use); MALE; MESENTERIC ARTERIES (drug effects); REGIONAL BLOOD FLOW (drug effects); SHOCK, HEMORRHAGIC (drug therapy, physiopathology); VASCULAR RESISTANCE (drug effects).

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ACIDOSIS, DIABETIC (complications); ADULT; CASE REPORT; ELECTROCARDIOGRAPHY; HUMAN; MALE; PERICARDITIS (complications, diagnosis).

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LONG-TERM EFFECT OF DIALYSATE GLUCOSE ON THE LIPID LEVELS OF MAINTENANCE HEMODIALYSIS PATIENTS. Swamy AP, Cestero RV, Campbell RG, Freeman RB *Trans Am Soc Artif Intern Organs* 22: 54-9, 1976 (Eng) \*DL/77MAY612

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ANESTHESIA, INHALATION; ANIMAL; BLOOD SUGAR (metabolism); DOGS; ENFLURANE (pharmacodynamics); INSULIN (secretion); METHYL ETHERS (pharmacodynamics).

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BILIARY FISTULA (drug therapy); DRUG EVALUATION; DUODENAL DISEASES (drug therapy); ENGLISH ABSTRACT; FISTULA (drug therapy); GLUCAGON (therapeutic use); HUMAN; PANCREATIC FISTULA (drug therapy).

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ANIMAL; BIOLOGICAL ASSAY; CATTLE; DOSE-RESPONSE RELATIONSHIP, DRUG; HYPERGLYCEMIA (chemically induced); HYPOTENSION (chemically induced); HYPOTHALAMUS (physiology); MONOGRAPH (mortality); PEPTIDES (pharmacodynamics, physiology); RATS; RECEPTORS, HORMONE; VASCULAR RESISTANCE (drug effects).

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CHROMATOGRAPHY, GAS (methods); CHROMATOGRAPHY, THIN LAYER (methods); ELECTROPHORESIS, AGAR GEL (methods); EVALUATION STUDIES; HUMAN; METHODS; QUALITY CONTROL; SPECTROMETRY, FLUORESCENCE (methods); TRIGLYCERIDES (blood).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL; ENZYME ACTIVATION (drug effects); GLUCAGON (pharmacodynamics); KINETICS; MALE; PROTEIN BINDING; PROTEIN KINASE (metabolism); RATS.

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[EFFECTS OF ESTRO-PROGESTATIONAL HORMONES ON GLUCOSE TOLERANCE AND INSULIN SECRETION] Cathelineau G *Pathol Biol (Paris)* 24: 625-9, Nov 76 (Fre) DL/77MAY349

CARBOHYDRATES (metabolism); CONTRACEPTIVES, ORAL (adverse effects); CONTRACEPTIVES, ORAL, HORMONAL

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(adverse effects); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); METABOLISM (drug effects).

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EVALUATION OF DIFFERENT APPROACHES TO OBSTETRIC CARE: PART I. Chalmers I, Lawson JG, Turnbull AC *Br J Obstet Gynaecol* 83: 921-9, Dec 76 (Eng) DL/77MAY6

COMPARATIVE STUDY; ERYTHROBLASTOSIS, FETAL (occurrence); FEMALE; HEART DISEASES (occurrence); HUMAN; MATERNAL AGE; PREGNANCY IN DIABETES (occurrence); PREGNANCY COMPLICATIONS (occurrence, therapy); PREGNANCY; PREGNANCY, MULTIPLE; PRENATAL CARE (methods, standards); URINARY TRACT INFECTIONS (occurrence); WALES.

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ADOLESCENCE; ADULT; CALCINOSIS (complications); CHRONIC DISEASE; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; PANCREATITIS (complications); THAILAND.

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[DEVELOPMENT OF AN AUTOMATIC SYSTEM OF INSULIN INFUSION CONTROLLED BY BLOOD SUGAR, ITS SYSTEM FOR THE DETERMINATION OF GLUCOSE AND CONTROL ALGORITHMS] Clemens AH, Chang PH, Myers RW *Journ Annu Diabetol Hotel Dieu* 269-78, May 76 (Fre) DL/77MAY254

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[FUNCTIONAL PLASTICITY OF RECEPTOR-RESPONDER SYSTEMS OF ALPHA AND BETA CELLS OF THE ISLANDS OF LANGERHANS INVOLVED IN GLUCAGON AND INSULIN SECRETION] Loubatieres A, Loubatieres-Mariani MM, Chapal J, ANI MM 0006, APAL J *JP Journ Annu Diabetol Hotel Dieu* 207-26, May 76 (Fre) DL/77MAY248

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ADIPOSE TISSUE (analysis, drug effects); ALLOXAN DIABETES (metabolism, physiopathology); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); INSULIN (pharmacodynamics); LIPIDS (analysis); MALE; RATS.

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AFLATOXINS (antagonists & inhibitors); ANIMAL; CORTICOTROPIN (pharmacodynamics); FEMALE; HEPATOMA (chemically induced, pathology); HYPERPLASIA; INSULIN (pharmacodynamics); LIVER NEOPLASMS (chemically induced, pathology); LYMPHOMA (chemically induced, pathology); MALE; NEOPLASMS, EXPERIMENTAL (chemically induced, pathology); PRECANCEROUS CONDITIONS (pathology); RATS; RATS, INBRED F344; SOMATOTROPIN (pharmacodynamics).

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ADULT; AGED; CLINICAL RESEARCH; DIABETIC RETINOPATHY (surgery); FOLLOW-UP STUDIES; HUMAN; LIGHT COAGULATION (methods); MIDDLE AGE; PROGNOSIS; RETINAL VESSELS (surgery); XENON.

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EVIDENCE FOR AN IMPORTANT ROLE OF GLUCAGON IN THE REGULATION OF HEPATIC GLUCOSE PRODUCTION IN NORMAL MAN. Liljenquist JE, Mueller GL, Cherrington AD, Keller U, Chiasson J-L, Perry JM, Lacy WW, Rabinowitz D *J Clin Invest* 59: 369-74, Feb 77 (Eng) DL/77MAY175

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FETAL PANCREATIC GLUCAGON RESPONSES IN GLUCOSE-INTOLERANT NONHUMAN PRIMATE PREGNANCY. Epstein M, Chez RA, Oakes GK, Mintz DH *Am J Obstet Gynecol* 127: 268-72, 1 Feb 77 (Eng) DL/77MAY480

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OCULAR INVOLVEMENT IN YERSINIA ENTEROCOLITICA INFECTION PRESENTING AS PARINAUDS OCULOGLANDULAR SYNDROME. Chin GN, Noble RC *Am J Ophthalmol* 83: 19-23, Jan 77 (Eng) DL/77MAY483

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(drug therapy, etiology, microbiology); DIABETES MELLITUS (complications); GENTAMICIN (therapeutic use); HUMAN; MALE; SYNDROME; YERSINIA INFECTIONS; YERSINIA INFECTIONS (drug therapy); YERSINIA (isolation & purification).

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AUTOIMMUNITY AND HISTOCOMPATIBILITY ANTIGENS IN DIABETES MELLITUS OF CHILDHOOD [PROCEEDINGS]. Ilteni MT, Pellegri G, Del Guercio MJ, Tarantino A, Busetto F, Di Pietro C, Clerici E, Chiumello G *Diabete Metab* 2: 158, Sep 76 (Eng) DL/77MAY106

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[HYPEROSMOTIC NONKETOTIC DIABETIC COMA] Acecka H, Chmielewska J, Dowbor B *Wiad Lek* 29: 2149-53, 1 Dec 76 (Pol) DL/77MAY438

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ISOLATION OF A SOMATOMEDIN FROM PLASMA OF RATS BEARING GROWTH HORMONE SECRETING TUMORS. Chochinov RH, Mariz IK, Daughaday WH *Endocrinology* 100: 549-56, Feb 77 (Eng) DL/77MAY63

ANIMAL; BINDING; COMPETITIVE; BIOLOGICAL ASSAY; CARTILAGE (drug effects, metabolism); CELL MEMBRANE (metabolism); FEMALE; HUMAN; HYPOPHYSECTOMY; INSULIN (immunology); KINETICS; MOLECULAR WEIGHT; PITUITARY NEOPLASMS (metabolism); PLACENTA (metabolism); PREGNANCY; RADIOLIGAND ASSAY; RATS; RECEPTORS, HORMONE (metabolism); SOMATOMEDIN (biosynthesis, blood, immunology, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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RELATIVE ROLE OF FACTORS ASSOCIATED WITH CEREBRAL INFARCTION AND CEREBRAL HEMORRHAGE. A MATCHED PAIR CASE-CONTROL STUDY. Abu-Zeid HA, Choi NW, Maini KK, Hsu PH, Nelson NA *Stroke* 8: 106-12, Jan-Feb 77 (Eng) DL/77MAY422

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ANIMAL; BLOOD SUGAR (analysis); COMPARATIVE STUDY; CRYSTALLIZATION; ENGLISH ABSTRACT; INSULIN (pharmacodynamics, standards); MICE; SWINE; TIME FACTORS.

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ADENOSINE TRIPHOSPHATE (metabolism); AMINO ACIDS (metabolism); BINDING SITES; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism); ENERGY METABOLISM; HYDROGEN (metabolism); HYDROGEN-ION CONCENTRATION (physiology); NEURAL TRANSMISSION; REVIEW; SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; ARGININE (administration & dosage, pharmacodynamics); ESOPHAGOGASTRIC JUNCTION (drug effects); FEMALE; GLUCAGON (blood, pharmacodynamics, secretion); HUMAN; MALE; PANCREAS (secretion); PENTAGASTRIN (administration & dosage, pharmacodynamics); PRESSURE.

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[DEVELOPMENT OF AN AUTOMATIC SYSTEM OF INSULIN INFUSION CONTROLLED BY BLOOD SUGAR, ITS SYSTEM FOR THE DETERMINATION OF GLUCOSE AND CONTROL ALGORITHMS] Clemens AH, Chang PH, Myers RW *Journ Annu Diabetol Hotel Dieu* 269-78, May 76 (Fre) DL/77MAY254  
BLOOD SUGAR (analysis); COMPUTERS; DIGITAL; HUMAN; INSULIN (administration & dosage).

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CORRELATION OF PLATELET AGGREGATION, PLASMA FACTOR ACTIVITY, AND MEGATHROMBOCYTES IN DIABETIC SUBJECTS WITH AN WITHOUT VASCULAR DISEASE. Colwell JA, Sagel J, Crook L, Chambers A, Laimins M. *Metabolism* 26: 279-85, Mar 77 (Eng) DL/77MAY311

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ALCOHOL OXIDOREDUCTASES (analysis); ALDOSE REDUCTASE (analysis); ALLOXAN DIABETES (enzymology); ANIMAL; FRUCTOSE (metabolism); GLUCOSE (metabolism); IDITOL DEHYDROGENASE (analysis); KIDNEY GLOMERULUS (enzymology); KIDNEY MEDULLA (enzymology); KIDNEY TUBULES (enzymology); KIDNEY (enzymology); (growth & development); MALE; RATS; SORBITOL (metabolism).



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**ADENYL CYCLASE (metabolism); CELL LINE; CULTURE MEDIA; EPINEPHRINE (pharmacodynamics); FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANOSINE TRIPHOSPHATE (analogs & derivatives, pharmacodynamics); KINETICS; PROSTAGLANDINS A (pharmacodynamics); PROSTAGLANDINS E (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

## Crook L

**CORRELATION OF PLATELET AGGREGATION, PLASMA FACTOR ACTIVITY, AND MEGATHROMBOCYTES IN DIABETIC SUBJECTS WITH AN WITHOUT VASCULAR DISEASE.** Colwell JA, Sagel J, Crook L, Chambers A, Laimins M *Metabolism* 26: 279-85, Mar 77 (Eng) DL/77MAY311

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**DIABETES MELLITUS FOLLOWING MUMPS.** Reddy CM, Crump EP *J Natl Med Assoc* 68: 459-60, Nov 76 (Eng) DL/77MAY224

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**AMINO ACIDS (secretion); ANIMAL EXPERIMENTS (analysis); ASPARTIC ACID (physiology); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CATS; CHLOROMERCURIBENZOATES (pharmacodynamics); CYANIDES (pharmacodynamics); ELECTRIC STIMULATION; FEMORAL NERVE (physiology); GLUTAMATES (physiology); GLYCINE (physiology); GABA (physiology); IN VITRO; NERVE ENDINGS (secretion); NEUROHUMORS (secretion); OUABAIN (pharmacodynamics); POTASSIUM (pharmacodynamics); RATS; SCIATIC NERVE (physiology); SPINAL CORD (drug effects, secretion); SPINAL NERVE ROOTS (physiology); STRYCHNINE (pharmacodynamics); TOADS.**

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**ADIPOSE TISSUE (cytology); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELLS, CULTURED; CYTOCHALASIN B (pharmacodynamics); ETHYLMALAIMIDE (pharmacodynamics); FEMALE; HEXOSES (metabolism); INSULIN (pharmacodynamics); METHYLGLUCOSIDES (metabolism); MODELS, BIOLOGICAL; RATS; RECEPTORS, INSULIN (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VITAMIN K (pharmacodynamics).**

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**[INFECTION AND IMMUNOREACTIVITY WITH REFERENCE TO INSULIN]** Czyzyk A, Rogala H, Symonides-Lawacka A, Lawacki J, Beischer W, Thum C, Clemens AH *Journ Annu Diabetol Hotel Dieu* 45-58, May 76 (Fre) DL/77MAY266

**ADOLESCENCE; ADULT; AGED; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications, immunology); FEMALE; HUMAN; IGG (analysis); INFECTION (complications, immunology); INSULIN ANTIBODIES (analysis); MALE; MIDDLE AGE.**

## Dagenais GR

**FREE FATTY ACID METABOLISM IN THE FOREARM AT REST: MUSCLE UPTAKE AND ADIPOSE TISSUE RELEASE OF FREE FATTY**

**ACIDS.** Tancredi RG, Dagenais GR, Zierler KL *Johns Hopkins Med J* 138: 167-79, May 76 (Eng) \*DL/77MAY591

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**ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); AMINOPHYLLINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CHEMORECEPTORS (drug effects, physiology); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DIPTERA (physiology); DOSE-RESPONSE RELATIONSHIP, DRUG ); FEMALE; FLIES (physiology); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); NEURONS (drug effects, physiology); SUCROSE (metabolism).**

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**ADOLESCENCE; ADULT; ERGOLINES (pharmacodynamics); FEMALE; HUMAN; MENSTRUATION; PIMOZIDE (pharmacodynamics); SOMATOTROPIN (blood); TIME FACTORS; 2-BROMOERGOCRYPTINE (pharmacodynamics).**

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GLUCOSE UPTAKE BY CHICKEN EMBRYO HEARTS AT VARIOUS STAGES OF DEVELOPMENT. Kutchai H, King SL, Martin M, Daves ED *Dev Biol* 55: 92-102, Jan 77 (Eng) DL/77MAY122

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OBSERVATIONS IN MAN OF HYPOGLYCAEMIA DURING SELECTIVE AND NON-SELECTIVE BETA-BLOCKADE. Davidson NM, Corral RJ, Shaw TR, French EB *Scott Med J* 22: 69-72, Jan 77 (Eng) DL/77MAY401

ACUTE DISEASE; ADRENERGIC BETA RECEPTOR BLOCKADERS (adverse effects); ADULT; BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); HUMAN; HYPOGLYCAEMIA (chemically induced); MALE; METOPROLOL (administration & dosage, metabolism); MIDDLE AGE; PROPRANOLOL (administration & dosage, metabolism); TACHYCARDIA (chemically induced).

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# Diabetes Literature—Author Index

den Orth OO

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# Diabetes Literature—Author Index

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# Diabetes Literature—Author Index

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RHESUS MONKEYS; STREPTOZOTOCIN;  
UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. ).

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DIABETES MELLITUS (blood, physiopathology);  
GLUCOSE TOLERANCE TEST; GLUCOSE  
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HEREDITARY (metabolism); DOGS;  
DOPAMINE BETA HYDROXYLASE (analysis);  
DYSTONIA MUSCULORUM DEFORMANS  
(metabolism); FEMALE; GANGLIA, BASAL  
(cytology, metabolism); GLUCOSE (metabolism);  
GABA (metabolism); HUMAN; METALS  
(metabolism); MODELS, NEUROLOGIC;  
NEUROHUMORS (metabolism); OXYGEN  
CONSUMPTION; PARKINSONISM  
(metabolism); RABBITS; TYROSINE  
HYDROXYLASE (analysis).

## Fain JN

ACTIVATION OF PROTEIN KINASE AND  
GLYCOGEN PHOSPHORYLASE IN ISO-  
LATED RAT LIVER CELLS BY GLUCAGON  
AND CATECHOLAMINES. Birnbaum MJ, Fain  
JN *J Biol Chem* 252: 528-35, 25 Jan 77 (Eng)  
DL/77MAY155

## Falchero F

[PARENTERAL HYPERALIMENTATION IN  
THE TREATMENT OF DEHISCENCE OF THE  
DUODENAL STUMP] Falchero F, Valentini M,  
Becchi G *Minerva Chir* 31: 1007-10, 30 Sep 76  
(Ita) DL/77MAY336

ADULT; DUODENUM (surgery); ENGLISH  
ABSTRACT; EVALUATION STUDIES;  
GASTRECTOMY; GLUCAGON (therapeutic  
use); HUMAN; MALE; MIDDLE AGE;  
PARENTERAL FEEDING; PARENTERAL  
HYPERALIMENTATION; SURGICAL WOUND  
DEHISCENCE (diet therapy, drug therapy).

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[STUDY ON THE SECRETION OF SO-  
MATOTROPIC HORMONE IN TRANSITORY  
HYPOGLYCEMIA OF THE PREMATURE IN-  
FANT] Falorni A, Massi-Benedetti F, Gallo GC,  
Sposito M *Minerva Pediatr* 28: 1116-8, 19 May  
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FEMALE; HUMAN; HYPOGLYCEMIA  
(physiopathology); INFANT, NEWBORN;  
INFANT, PREMATURE, DISEASES  
(physiopathology); PREGNANCY;  
SOMATOTROPIN (secretion); TIME FACTORS.

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DRUG INTERACTIONS WITH GUANIDINIUM  
ANTIHYPERTENSIVES. Stafford JR, Fann WE  
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[EPIDEMIOLOGICAL STUDY ON CORONARY  
RISK FACTORS IN A POPULATION OF  
CLERKS IN PARMA. METHODS OF  
RESEARCH AND 1ST RESULTS] Albertini D,  
Bolognesi R, Caronna S, Fappani A, Magnati G,  
Manca C, Pugnoli C, Zulliani U *Ateneo Parmense  
[Acta Biomed]* 47: 201-48, May-Jun 76 (Ita)  
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PLASMA GLUCOSE LEVELS: LONG-TERM EF-  
FECT OF DIET IN THE CHICAGO CORONA-  
RY PREVENTION EVALUATION PROGRAM.  
Farinero E, Stamler J, Upton M, Mojonner L,  
Hall Y, Moss D, Berkson DM *Ann Intern Med*  
86: 147-54, Feb 77 (Eng) DL/77MAY499

BLOOD SUGAR; BODY WEIGHT;  
CHOLESTEROL (blood); CHOLESTEROL,  
DIETARY; CORONARY DISEASE (prevention &  
control); DIET, DIET, REDUCING; DIETARY  
CARBOHYDRATES; DIETARY FATS;  
FASTING; GLUCOSE TOLERANCE TEST;  
HUMAN; MALE; MIDDLE AGE; TIME  
FACTORS; UNITED STATES GOVERNMENT  
SUPPORTED, N.I.H. ).

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HLA AND PANCREATIC ISLET CELL AN-  
TIBODIES IN DIABETES [PROCEEDINGS].  
Morris PJ, Vaughan H, McCallum CJ, Gray RS,

Irvine WJ, Campbell CJ, Duncan LJ, Farquhar  
JW *Diabetes Metab* 2: 158, Sep 76 (Eng)  
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FURTHER CHARACTERIZATION OF RAT  
LIVER MITOCHONDRIAL FRACTIONS.  
LIPID COMPOSITION AND SYNTHESIS, AND  
PROTEIN PROFILES. Satav JG, Katyare SS,  
Fatterpaker P, Sreenivasan A *Biochem J* 156:  
215-23, 15 May 76 (Eng) \*DL/77MAY666

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HYPOLIPIDEMIC EFFECTS OF METFORMIN  
IN HYPERBETALIPROTEINEMIA.  
Fedele D, Tiengo A, Nosadini R, Marchioni E,  
Briani G, Garotti MC, Muggeo M *Diabetes Metab*  
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ADULT; ANTILIPEMIC AGENTS; BLOOD  
SUGAR (analysis); BODY WEIGHT (drug  
effects); CHOLESTEROL (blood); DIABETES  
MELLITUS (complications); FEMALE;  
GLUCOSE TOLERANCE TEST; HUMAN;  
HYPERGLYCEMIA (complications);  
HYPERLIPIDEMIA (blood, complications, drug  
therapy, physiopathology); INSULIN (blood);  
LIPOPROTEINS, VLDL (blood); MALE;  
METFORMIN (pharmacodynamics, therapeutic  
use); MIDDLE AGE; SOMATOTROPIN (blood);  
TRIGLYCERIDES (blood).

[THE SECRETION OF GLUCAGON AND INSU-  
LIN IN PATIENTS WITH ANTI-PAN-  
CREATIC-ISLET ANTIBODIES (ICA -  
(PROCEEDINGS)] Tiengo A, Del Prete G,  
Nosadini R, Betterle C, Bersani G, Fedele D  
*Diabetes Metab* 2: 148-9, Sep 76 (Fre)  
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[RE-EVALUATION OF THE ACTION OF SAL-  
ICYLATE ON GLUCOSE AND INSULIN  
BLOOD LEVELS IN NORMAL AND  
DIABETIC SUBJECTS AND POSSIBLE IN-  
TERFERENCE WITH ORAL ANTIDIABETIC  
THERAPY] Pitucco G, Santucci A, Caputo V,  
De Mattia G, Federico M *Clin Ter* 78: 227-44, 15  
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EFFECT OF CHLORPROMAZINE ON BLOOD  
GLUCOSE AND PLASMA INSULIN IN MAN.  
Erle G, Basso M, Federspil G, Siculo N, Scandellari C  
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[EVIDENCE OF PSEUDOISOCYANINE-POSI-  
TIVE ENDOCRINE CELLS IN THE GASTRIC  
MUCOSA OF THE DOG] von Dorsche HH,  
Hommel H, Fischer U, Fehrmann P, Krause R  
*Acta Histochem (Jena)* 57: 320-2, 1976 (Ger)  
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[INDIRECT AND DIRECT CALORIMETRY IN  
THE STUDY OF CARBOHYDRATE  
METABOLISM IN OBESITY AND DIABETES]  
Jequier E, Pittet P, Felber JP *Journ Annu  
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A GENERAL APPROACH TO MULTICOM-  
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AMPICILLIN (administration & dosage);  
ANIMAL; CARDIAC GLYCOSIDES  
(pharmacodynamics); DRUGS (administration &  
dosage, metabolism); GLUCOSE TOLERANCE  
TEST; HUMAN; MATHEMATICS; MODELS,  
BIOLOGICAL; MONOGRAPH (mortality);

## Felic P

PENICILLINS (administration & dosage); PHARMACOKINETICS; RECEPTORS, DRUG; STOCHASTIC PROCESSES; SULFONAMIDES (diagnostic use).

## Felic P

GLUCOSE HOMEOSTASIS DURING PROLONGED SUPPRESSION OF GLUCAGON AND INSULIN SECRETION BY SOMATOSTATIN. Sherwin RS, Hendler R, DeFronzo R, Wahren J, Felic P *Proc Natl Acad Sci USA* 74: 348-52, Jan 77 (Eng) DL/77MAY368

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INFLUENCE OF SOMATOSTATIN ON SPANSHIC GLUCOSE METABOLISM IN POSTABSORPTIVE AND 60-HOUR FASTED HUMANS. Wahren J, Efendic S, Luft R, Hagenfeldt L, Bjorkman O, Felig P *J Clin Invest* 59: 299-307, Feb 77 (Eng) DL/77MAY172

[INFLUENCE OF PROTEIN INGESTION ON THE AMINO ACID METABOLISM IN DIABETES MELLITUS] Wahren J, Felig P *Journ Annu Diabetol Hotel Dieu* 7-20, May 76 (Fre) DL/77MAY268

BODY FUEL METABOLISM AND DIABETES MELLITUS IN PREGNANCY. Felig P *Med Clin North Am* 61: 43-66, Jan 77 (Eng) [129 ref.] DL/77MAY287

BLOOD SUGAR (metabolism); DELIVERY; DIABETES MELLITUS (classification, complications, diet therapy, diagnosis, drug therapy, metabolism); ENERGY METABOLISM; ESTROGENS (physiology); FEMALE; FETAL DEATH (etiology); FETUS (metabolism); GLUCOSE (metabolism); HUMAN; INFANT MORTALITY; INSULIN (physiology); KETONES (metabolism); MATERNAL-FETAL EXCHANGE; PLACENTAL LACTOGEN (physiology); PREGNANCY IN DIABETES (complications, diet therapy, drug therapy, metabolism); PREGNANCY; PROGESTERONE (physiology); REVIEW.

INFLUENCE OF PHYSIOLOGIC HYPERGLUCAGONEMIA ON URINARY GLUCOSE, NITROGEN, AND ELECTROLYTE EXCRETION IN DIABETES. Sherwin RS, Hendler R, Felic P *Metabolism* 26: 53-8, Jan 77 (Eng) DL/77MAY303

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EFFECT OF HAEMATOCRIT VALUE AND PO2 ON THE REDOX STATE AND METABOLISM OF THE PERFUSED LIVER. Mayes PA, Felts JM *Biochem J* 156: 685-9, 15 Jun 76 (Eng) \*DL/77MAY670

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ASSESSMENT OF VAGAL CONTROL OF THE HEART IN DIABETES. MEASURES OF R-R INTERVAL VARIATION UNDER DIFFERENT CONDITIONS. Bennett T, Fentem PH, Fitton D, Hampton JR, Hosking DJ, Riggott PA *Br Heart J* 39: 25-8, Jan 77 (Eng) DL/77MAY3

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EFFECT OF A CHOLESTEROL-RICH DIET ON CHOLESTEROL CONTENT AND PHAGOCYTIC ACTIVITY OF RAT MACROPHAGES. Feo F, Canuto RA, Torrielli MV, Garcea R, Dianzani MU *Agents Actions* 6: 135-42, Feb 76 (Eng) \*DL/77MAY642

ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (analysis); CHOLESTEROL (analysis, metabolism); CHOLESTEROL, DIETARY; MACROPHAGES (analysis, metabolism, physiology, ultrastructure); MALE; PHAGOCYTOSIS; PHOSPHOLIPIDS (analysis); RATS.

## Ferguson RM

HIST PRESENSITIZATION AND RENAL ALLOGRAFT SUCCESS AT A SINGLE INSTITU-

## Diabetes Literature—Author Index

TION: FIRST TRANSPLANTS. Ferguson RM, Simmons RL, Noreen H, Yunis EJ, Najarian JS *Surgery* 81: 139-45, Feb 77 (Eng) DL/77MAY406

ADULT; ANTIBODIES (analysis); CROSS REACTIONS; CYTOTOXICITY TESTS, IMMUNOLOGIC; DIABETES MELLITUS (complications); FEMALE; FOLLOW-UP STUDIES; GRAFT REJECTION; GRAFT SURVIVAL; HLA-A (analysis); HUMAN; KIDNEY (transplantation); MALE; SEX FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

## Ferland L

SOMATOSTATIN ANALOGS WHICH INHIBIT GLUCAGON AND GROWTH HORMONE MORE THAN INSULIN RELEASE. Meyers C, Arimura A, Gordin A, Fernandez-Durango R, Coy DH, Schally AV, Drouin J, Ferland L, Beaulieu M, Labrie F *Biochem Biophys Res Commun* 74: 630-6, 24 Jan 77 (Eng) DL/77MAY532

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[EFFECTS OF GLIBENCLAMIDE ON BLOOD LIPID CHANGES INDUCED BY ORAL LIPID LOAD IN DIABETIC SUBJECTS] Ferlito S, Mangiagli P, Lunetta M *Clin Ter* 78: 363-71, 31 Aug 76 (Ita) DL/77MAY42

ADMINISTRATION, ORAL; ADULT; BUTTER; DIABETES MELLITUS (blood); DIETARY FATS (administration & dosage); FEMALE; GLIBENCLAMIDE (pharmacodynamics); HUMAN; LIPIDS (blood); MIDDLE AGE.

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EFFECTS ON THE DIET ON BRAIN NEUROTRANSMITTERS. Fernstrom JD *Metabolism* 26: 207-23, Feb 77 (Eng) [61 ref.] DL/77MAY310

ACETYL COENZYME A (metabolism); ACETYLCHOLINE (biosynthesis); ANIMAL; BRAIN (metabolism); CATECHOLAMINES (biosynthesis); CHOLINE DEFICIENCY (metabolism); CHOLINE (metabolism); DIET; DIETARY PROTEINS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); HYDROXYINDOLEACETIC ACID (metabolism); INSULIN (pharmacodynamics); NEUROHORMONES (biosynthesis); PAIN (physiopathology); PHENYLALANINE (metabolism); PROTEIN BINDING; RATS; REVIEW; SEROTONIN (biosynthesis); SERUM ALBUMIN (metabolism); TRYPTOPHAN (metabolism); TYROSINE HYDROXYLASE (metabolism); TYROSINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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RADIOIMMUNOASSAY OF LABELED AND UNLABELED INSULIN MIXTURES. Citti L, Ferrannini E, Battini L, Navale R *J Nucl Biol Med* 20: 75-8, Apr-Jun 76 (Eng) DL/77MAY213

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EFFECTS OF SHORT-TERM CLOFIBRATE ADMINISTRATION ON GLUCOSE TOLERANCE AND INSULIN SECRETION IN PATIENTS WITH CHEMICAL DIABETES OR HYPERTRIGLYCERIDEMIA. Ferrari C, Frezzati S, Romussi M, Bertazzoni A, Testori GP, Antonini S, Paracchi A *Metabolism* 26: 129-39, Feb 77 (Eng) DL/77MAY306

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); CLOFIBRATE (pharmacodynamics); DIABETES MELLITUS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; HYDROCORTISONE (blood); INSULIN (blood, pharmacodynamics); MALE; MIDDLE AGE; SOMATOTROPIN (blood); TRIGLYCERIDES (blood); URIC ACID (blood).

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[BIOCHEMICAL BASIS OF THE EFFECTS OF ALCOHOL] Fevry J *Tijdschr Gastroenterol* 19: 71-90, 1976 (Dut) [62 ref.] DL/77MAY418

ACETALDEHYDE (biosynthesis); ALCOHOL, ETHYL (pharmacodynamics, toxicity); ALCOHOLISM (complications); ARRRHYTHMIA (chemically induced); CARBOHYDRATES (metabolism); CITRATES (metabolism); ENGLISH ABSTRACT; FATTY ACIDS (biosynthesis); FRUCTOSE (pharmacodynamics); HEPATOMEGALY (chemically induced); HUMAN; HYPOGLYCEMIA (chemically induced); KREBS CYCLE; LIVER (drug effects); NAD (metabolism); OSMOLAR CONCENTRATION; PORPHYRINS (urine); REVIEW; TRIGLYCERIDES (metabolism); URIC ACID (blood).

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GLUCOSE-INDUCED INSULIN SECRETION AND INSULIN SENSITIVITY OF PERIPHERAL ORGANS OF EGYPTIAN SAND RATS BEFORE MANIFESTATION OF DIABETES. Kohler E, Knospe S, Schafer H, Ziegler B, Blech W, Bierwolf B, von Dorsche HH, Gottschling HD, Fiedler H, Bibergeil H *Endokrinologie* 68: 198-210, 1976 (Eng) DL/77MAY67

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CHYLOMICRON PROTEIN CONTENT AND THE RATE OF LIPOPROTEIN LIPASE ACTIVITY. Fielding CJ, Fielding PE *J Lipid Res* 17: 419-23, Jul 76 (Eng) \*DL/77MAY580

ANIMAL EXPERIMENTS (analysis); CHYLOMICRONS (metabolism); ENZYME ACTIVATION (drug effects); KINETICS; LIPOPROTEIN LIPASE (metabolism); LIPOPROTEINS (blood); LYMPH (enzymology); MALE; PROTEIN BINDING; RATS; TRIGLYCERIDES (analysis, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[HEMODYNAMICS IN CHILDREN AND ADOLESCENTS WITH DIABETES MELLITUS AT DIFFERENT DEVELOPMENTAL STAGES] Filippova NV *Pediatrics* 33-6, Sep 76 (Rus) DL/77MAY356

ADOLESCENCE; BLOOD VESSELS (physiopathology); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (physiopathology); ENGLISH ABSTRACT; HEMODYNAMICS; HUMAN.



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[SUPPRESSION OF HYPOPHYSIAL FUNCTION AND TREATMENT OF PROLIFERATING DIABETIC RETINOPATHY] Margolis MG, Zefirova GS, Filkova EM *Vestn Oftalmol* 84-8, Mar-Apr 76 (Rus) DL/77MAY432

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REGULATION OF HORMONE EFFICACY IN ISOLATED HEPATOCYTES BY THE INTRACELLULAR REDOX STATE ACTING ON CYCLIC AMP PHOSPHODIESTERASE [PROCEEDINGS], Clark MG, Filsell OH, Garrett IG *J Physiol (Lond)* 263: 175P-176P, Dec 76 (Eng) DL/77MAY220

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THE EFFECT OF INCREASING ISLET NUMBERS ON SURVIVAL OF PANCREATIC ISLET ALLOGRAFTS IN IMMUNOSUPPRESSED DIABETIC RATS. Finch DR, Morris PJ *Transplantation* 23: 104-6, Jan 77 (Eng) DL/77MAY428

ANIMAL; BLOOD SUGAR (analysis); CELL COUNT; CYCLOPHOSPHAMIDE (pharmacodynamics); DIABETES MELLITUS (surgery); GRAFT SURVIVAL (drug effects); ISLANDS OF LANGERHANS (transplantation); RATS; RATS, INBRED LEW; STREPTOZOTOCIN; TRANSPLANTATION, ALLOGENEIC.

CYSTIC CHANGES IN THE LIVER FOLLOWING EXPERIMENTAL INTRAPORTAL PANCREATIC ISLET TRANSPLANTATION. Finch DR, Morris PJ, Vanhegan RI *Transplantation* 23: 182-5, Feb 77 (Eng) DL/77MAY429

ANIMAL; CYSTS; ISLANDS OF LANGERHANS (transplantation); LIVER DISEASES (etiology); LIVER (pathology); PORTAL VEIN; RATS; RATS, INBRED LEW; TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, ISOGENEIC.

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SIGNIFICANCE OF MINOR GLYCEROLIPIDS IN MEMBRANE STRUCTURE AND FUNCTION. Michell RH, Allan D, Finean JB *Adv Exp Med Biol* 72: 3-13, 1976 (Eng) [48 ref.] \*DL/77MAY639

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THE MECHANISM OF INSULIN SECRETION AFTER ORAL GLUCOSE ADMINISTRATION. VIII. PANCREATIC JUICE INSULIN EXCRETION AFTER GLUCOSE LOADING AND MEAL INGESTION IN NORMAL AND VAGOTOMIZED DOGS. Fischer U, Hommel H, Ziegler M, Nowak W, von Dorsche HH *Endokrinologie* 68: 327-37, 1976 (Eng) DL/77MAY74

ADMINISTRATION, ORAL; ANIMAL; DOGS; EATING; FEMALE; GLUCOSE (pharmacodynamics); INJECTIONS, INTRAVENOUS; INSULIN (analysis, secretion); ISLANDS OF LANGERHANS (secretion); MALE; PANCREATIC JUICE (analysis); VAGOTOMY.

[EVIDENCE OF PSEUDOISOCYANINE-POSITIVE ENDOCRINE CELLS IN THE GASTRIC MUCOSA OF THE DOG] von Dorsche HH, Hommel H, Fischer U, Fehrmann P, Krause R *Acta Histochem (Jena)* 57: 320-2, 1976 (Ger) DL/77MAY457

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SERUM THYROTROPIN, PROLACTIN, AND GROWTH HORMONE LEVELS DURING THE EARLY NEONATAL PERIOD IN THE HUMAN INFANT. Sack J, Fisher DA, Wang CC *J Pediatr* 89: 298-300, Aug 76 (Eng) \*DL/77MAY584

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A SYNDROME OF IMMUNOGLOBULIN A DEFICIENCY, DIABETES MELLITUS,

MALABSORPTION, A COMMON HLA HAPLOTYPE. IMMUNOLOGIC AND GENETIC STUDIES OF FORTY-THREE FAMILY MEMBERS. Van Thiel DH, Smith WJ Jr, Rabin BS, Fisher SE, Lester R *Ann Intern Med* 86: 10-9, Jan 77 (Eng) DL/77MAY494

## Fisherman EW

SERUM TRIGLYCERIDE AND CHOLESTEROL LEVELS AND LIPID ELECTROPHORETIC PATTERNS IN INTRINSIC AND EXTRINSIC ALLERGIC STATES. Fisherman EW, Rosset D, Cohen GN *Ann Allergy* 38: 46-53, Jan 77 (Eng) DL/77MAY490

ADULT; ASPIRIN (adverse effects); BUTYLATED HYDROXYANISOLE (adverse effects); BUTYLATED HYDROXYTOLUENE (adverse effects); CHOLESTEROL (blood); COMPARATIVE STUDY; DIABETES MELLITUS (complications); DRUG HYPERSENSITIVITY (complications, etiology, metabolism); HUMAN; HYPERLIPEMIA (classification, complications, metabolism); HYPERSENSITIVITY, IMMEDIATE (etiology, metabolism); IODIDES (adverse effects); LIPOPROTEINS (blood); LIPOPROTEINS, LDL; MALE; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ASSESSMENT OF VAGAL CONTROL OF THE HEART IN DIABETES. MEASURES OF R-R INTERVAL VARIATION UNDER DIFFERENT CONDITIONS. Bennett T, Fentem PH, Fitton D, Hampton JR, Hosking DJ, Riggott PA *Br Heart J* 39: 25-8, Jan 77 (Eng) DL/77MAY3

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NUTRITIONAL EFFECTS ON SERUM ENZYMES AND OTHER BLOOD CONSTITUENTS IN REINDEER CALVES (RANGIFER TARANDUS TARANDUS). Bjørhov RS, Fjellheim P, Hove K, Jacobsen E, Skjenneberg S, Try K *Comp Biochem Physiol [A]* 55: 187-93, 1976 (Eng) \*DL/77MAY550

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[THE INFLUENCE OF SOMATOSTATIN ON SERUM GASTRIN CONCENTRATIONS IN PATIENTS AFTER TOTAL DUODENOPANCREATECTOMY (AUTHORS TRANSL.)] Pointner H, Flegel U, Tragl KH, Hengl G *Wien Klin Wochenschr* 89: 83-5, 4 Feb 77 (Ger) DL/77MAY440

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CYCLIC ADENOSINE 3:5-MONOPHOSPHATE-MEDIATED INSULIN SECRETION AND RIBOSOMAL PROTEIN PHOSPHORYLATION IN A HAMSTER ISLET CELL TUMOR. Schubart UK, Shapiro S, Fleischer N, Rosen OM *J Biol Chem* 252: 92-101, 10 Jan 77 (Eng) DL/77MAY153

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EFFECT OF DIETARY CONTROL AND EXERCISE TRAINING ON DAILY FOOD INTAKE AND SERUM LIPIDS IN POSTMYOCARDIAL INFARCTION PATIENTS. Watt EW, Wiley J, Fletcher GF *Am J Clin Nutr* 29: 900-4, Aug 76 (Eng) \*DL/77MAY645

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RECEPTORS FOR PEPTIDE HORMONES. NEW INSIGHTS INTO THE PATHOPHYSIOLOGY OF DISEASE STATES IN MAN. Kahn CR, Megyesi K, Bar RS, Eastman RC, Flier JS *Ann Intern Med* 86: 205-19, Feb 77 (Eng) DL/77MAY503

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ADMINISTRATION OF ASPARTAME IN NON-INSULIN-DEPENDENT DIABETICS. Stern SB, Bleicher SJ, Flores A, Gombos G, Recitas D, Shu J *J Toxicol Environ Health* 2: 429-39, Nov 76 (Eng) DL/77MAY226

## Flügel H

[LACTATE ACIDOSIS AFTER 5 DAYS OF PHENFORMIN THERAPY] Haas T, Sailer D, Flügel H, Ruppin H, Matzkies F *Fortschr Med* 94: 2074-5, 16 Dec 76 (Ger) DL/77MAY136

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[ELECTROENCEPHALOGRAPHIC AND NEUROLOGIC FINDINGS IN HYPEROSMOLAR NON-KETOACIDOTIC DIABETIC COMA] Flügel KA, Druschky KF *Nervenarzt* 47: 723-36, Dec 76 (Ger) DL/77MAY333

AGED; BRAIN (physiopathology); CASE REPORT; CONSCIOUSNESS DISORDERS; DIABETIC COMA (physiopathology); ELECTROENCEPHALOGRAPHY; EPILEPSY, FOCAL (diagnosis); FEMALE; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (diagnosis, drug therapy, physiopathology); HYPOTONIC SOLUTIONS (administration & dosage); INSULIN (administration & dosage); MALE; MIDDLE AGE; NEUROLOGIC MANIFESTATIONS.

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BIOENERGETICS IN CLINICAL MEDICINE. XI. STUDIES ON COENZYME Q AND DIABETES MELLITUS. Kishi T, Kishi H, Watanabe T, Folkers K *J Med* 7: 307-21, 1976 (Eng) DL/77MAY210

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PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. II. PLASMA FREE FATTY ACIDS, AMINOACIDS, AND INSULIN VARIATIONS FOLLOWING HYPOPHYSECTOMY AND REPLACEMENT THERAPY WITH GROWTH HORMONE AND CORTICOSTERONE. Foltzer C, Mialhe P *Diabete Metab* 2: 101-5, Sep 76 (Eng) DL/77MAY90

AMINO ACIDS (blood); ANIMAL; COMPARATIVE STUDY; CORTICOSTERONE (pharmacodynamics, physiology); DUCKS; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HYPOPHYSECTOMY; INSULIN (blood); MALE; SOMATOTROPIN (pharmacodynamics, physiology).

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**RECEPTORS, HORMONE (metabolism); RECEPTORS, INSULIN (metabolism); RECEPTORS, NARCOTIC (drug effects, metabolism); REVIEW; SODIUM (pharmacodynamics); TOXINS (metabolism).**

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**ACIDOSIS (chemically induced, complications, therapy); AGED; ALKALOSIS (etiology, therapy); CASE REPORT; FEMALE; HUMAN; MALE; PANCREATITIS (chemically induced); PHENFORMIN (adverse effects).**

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ABSTRACT; FEMALE; GUINEA PIGS; HEMODYNAMICS (drug effects); LIVER (drug effects); MALE; MICE; MUSCLE CONTRACTION (drug effects); MUSCLE SMOOTH (drug effects); RABBITS; RATS; SULFAMOXOLE (administration & dosage, adverse effects, pharmacodynamics); TRIMETHOPRIM (administration & dosage, adverse effects, pharmacodynamics); WATER-ELECTROLYTE BALANCE (drug effects).

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CASE REPORT; CORTISONE (therapeutic use); DIAZOXIDE (therapeutic use); FEMALE; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (drug therapy, etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); ISLET CELL TUMOR (complications, pathology, surgery); PANCREATIC NEOPLASMS (complications, pathology, surgery).

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(pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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FEMALE; HUMAN; INSULIN RESISTANCE;  
INSULIN (metabolism); MICROSOMES  
(metabolism); PLACENTA (metabolism);  
PREGNANCY IN DIABETES; PREGNANCY;  
RECEPTORS, INSULIN.

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ADULT; AGE FACTORS; AGED;  
AMINOTRANSFERASES (blood); BLOOD  
PRESSURE; BLOOD SUGAR; BODY WEIGHT;  
ENGLISH ABSTRACT; EXERTION; FASTING;  
FEMALE; GLUTAMYL TRANSPEPTIDASE  
(blood); HEART RATE; HEMODYNAMICS;  
HUMAN; MIDDLE AGE; OBESITY (blood,  
metabolism, physiopathology, therapy);  
STARVATION (metabolism); TRIGLYCERIDES  
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effects); CONTRACEPTIVES, ORAL,  
HORMONAL (adverse effects); ENGLISH  
ABSTRACT; ETHINYL ESTRADIOL (adverse  
effects); FEMALE; GLUCOSE TOLERANCE  
TEST; HUMAN; HYPERINSULINISM  
(chemically induced); NORGESTREL (adverse  
effects); SOMATOTROPIN (secretion).

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ADULT; AGED; ANGIOGRAPHY;  
CARCINOMA (radiography); CASE REPORT;  
CELIAC ARTERY (radiography); CHRONIC  
DISEASE; CONTRAST MEDIA (administration &

dosage); CYSTADENOMA, MUCINOUS (blood  
supply, radiography); DIAGNOSIS,  
DIFFERENTIAL; FEMALE; GASTRIN  
(secretion); GLUCAGON (secretion); HEPATIC  
ARTERY (radiography); HUMAN; ISLET CELL  
TUMOR (blood supply, radiography); MALE;  
MIDDLE AGE; PANCREATIC CYST (diagnosis);  
PANCREATIC NEOPLASMS (blood supply,  
radiography); PANCREATITIS (radiography);  
ZOLLINGER-ELLISON SYNDROME  
(radiography).

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RENAL FAILURE IN DIABETIC AZOTEMIC  
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INNER MEMBRANE OF RAT LIVER  
MITOCHONDRIA AND THE DETERMINA-  
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ANIMAL EXPERIMENTS (analysis);  
BIOLOGICAL TRANSPORT (drug effects);  
CALCIUM (metabolism); ELECTRIC  
CONDUCTIVITY; ELECTROCHEMISTRY; IN  
VITRO; IONOPHORES (pharmacodynamics);  
LANTHANUM (pharmacodynamics);  
MAGNESIUM (pharmacodynamics); MALE;  
MEMBRANES (metabolism); MITOCHONDRIA,  
LIVER (metabolism); MODELS, BIOLOGICAL;  
PROTONS; RATS; RUBIDIUM (metabolism);  
TEMPERATURE.

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HLA-TYPES, C-PEPTIDE AND INSULIN AN-  
TIBODIES IN JUVENILE DIABETICS  
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[AN ADENOMA OF THE ISLANDS OF LANGER-  
HANS PRODUCING HYPOGLYCEMIA AND  
NORMAL BLOOD INSULIN ACTIVITY  
WHEN DETERMINED BY RADIOIMMU-  
NOASSAY OF PERIPHERAL AND PORTAL  
BLOOD, BUT HAVING ELEVATED INSULIN-  
LIKE ACTIVITY IN PORTAL BLOOD ONLY  
(PROCEEDINGS)] Mirouze J, Marchal G, Orsetti  
A, Baldet P, Piperno M, Monnier L, Jaffiol C,  
Hedon L *Diabete Metab* 2: 148, Sep 76 (Fre)  
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DETECTION AND CHARACTERIZATION OF  
HYPERLIPOPROTEINEMIA IN MIDDLE-  
AGED MEN. Hedstrand H, Vessby B *Up J Med  
Sci* 81: 159-66, 1976 (Eng) DL/77MAY431

AGE FACTORS; BLOOD PRESSURE; BODY  
WEIGHT; CARDIOVASCULAR DISEASES  
(familial & genetic, mortality); EXERTION;  
HUMAN; HYPERLIPEMIA (blood, occurrence,  
physiopathology); INSULIN (blood); LIPIDS  
(blood); LIPOPROTEINS (blood); MALE;  
MARRIAGE; MIDDLE AGE; SMOKING;  
SOCIOECONOMIC FACTORS; SWEDEN.

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CHOLECYSTOKININ (pharmacodynamics); GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GLUCAGON (pharmacodynamics); HUMAN; SECRETIN (pharmacodynamics); SECRETORY RATE (drug effects).

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AMINO ACIDS (pharmacodynamics); CYCLAMATES (metabolism, toxicity); DIABETES MELLITUS (metabolism); DIABETIC DIET; DITERPENES (pharmacodynamics); FLAVONES (pharmacodynamics); GLYCYRRHIZA; HUMAN; PLANTS, EDIBLE (analysis); REVIEW; SACCHARIN (adverse effects, metabolism); SORBITOL (metabolism); SUGAR ALCOHOLS (pharmacodynamics); SWEETENING AGENTS (metabolism); TASTE (drug effects); VEGETABLE PROTEINS (pharmacodynamics); XYLITOL (metabolism).

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ADULT; AGED; BLOOD SUGAR (metabolism); CASE REPORT; FEMALE; HUMAN; INSULIN (blood); ISLET CELL TUMOR (drug therapy, metabolism); MALE; MIDDLE AGE; NEOPLASM METASTASIS; PANCREATIC

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[INTENSIVE TREADMILL LOAD OF CHILDREN IN PRESCHOOL AGE] Pannier R, Pauter D, Tuch E, Heumann W *Kinderaerztl Prax* 44: 201-9, May 76 (Ger) \*DL/77MAY592

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ADENOCARCINOMA (drug therapy, metabolism, pathology); ANIMAL; CASTRATION; CELL DIFFERENTIATION (drug effects); DRUG SCREENING; DNA; NEOPLASM (biosynthesis); ESTRADIOL (pharmacodynamics); ESTROGENS (antagonists & inhibitors, metabolism); FEMALE; INSULIN (pharmacodynamics); MAMMARY NEOPLASMS, EXPERIMENTAL (drug therapy, metabolism, pathology); MONOGRAPH (mortality); ORGAN CULTURE; PROGESTERONE (metabolism); PROLACTIN (antagonists & inhibitors, pharmacodynamics); RATS; RECEPTORS, ESTROGEN; SOMATOTROPIN RELEASING HORMONE (analogs & derivatives).

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NUCLEAR COMPONENTS RESPONSIBLE FOR THE RETENTION OF STEROID-RECEPTOR COMPLEXES, ESPECIALLY FROM THE STANDPOINT OF THE SPECIFICITY OF HORMONAL RESPONSES. Mainwaring WIP, Symes EK, Higgins SJ *Biochem J* 156: 129-41, 15 Apr 76 (Eng) \*DL/77MAY663

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ANIMAL EXPERIMENTS (analysis); DIBUTYRYL CYCLIC AMP (pharmacodynamics); FEMALE; FSH (pharmacodynamics); GLUCOSE (metabolism); GLYCOLYSIS (drug effects); GONADOTROPINS, EQUINE (pharmacodynamics); GRAAFIAN FOLLICLE (drug effects, metabolism); LACTATES (metabolism); LH (pharmacodynamics); MEIOSIS (drug effects); OOCYTES (physiology); OVULATION; OVUM (physiology); PHOSPHODIESTERASES (antagonists & inhibitors); RATS; SERUM ALBUMIN, BOVINE (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); TIME FACTORS.

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LUTEINIZING HORMONE RESPONSES TO LUTEINIZING HORMONE RELEASING HORMONE AND GROWTH HORMONE AND CORTISOL RESPONSES TO INSULIN INDUCED HYPOGLYCAEMIA IN FUNCTIONAL SECONDARY AMENORRHOEA. Hirvonen E, Seppala M, Karonen SL, Adlercreutz H *Acta Endocrinol (Kbh)* 84: 225-36, Feb 77 (Eng) DL/77MAY452

ADOLESCENCE; ADULT; AGE FACTORS; AMENORRHOEA (blood, physiopathology); ANOREXIA NERVOSA (blood, physiopathology); BLOOD SUGAR (analysis); BODY WEIGHT; CHILD; FEMALE; HUMAN; HYDROCORTISONE (secretion); HYPOGLYCEMIA (blood, physiopathology); INSULIN (diagnostic use); LH (blood, secretion); LH-FSH RELEASING HORMONE (diagnostic use); SOMATOTROPIN (blood, secretion).

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AMINO ACID SEQUENCE; AMINO ACIDS (analysis); ANIMAL; CATTLE; INDICATORS AND REAGENTS; INSULIN (chemical synthesis); METHODS; MONOGRAPH (mortality); PEPTIDE FRAGMENTS (analysis, chemical synthesis); SHEEP; TRYPSIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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L-ASPARAGINASE, VINCRISTINE, AND PREDNISONE FOR INDUCTION OF FIRST REMISSION IN ACUTE LYMPHOCYTIC LEUKEMIA. Ortega JA, Nesbit ME Jr, Donald-

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THE MECHANISM OF INSULIN SECRETION AFTER ORAL GLUCOSE ADMINISTRATION. VIII. PANCREATIC JUICE INSULIN EXCRETION AFTER GLUCOSE LOADING AND MEAL INGESTION IN NORMAL AND VAGOTOMIZED DOGS. Fischer U, Hommel H, Ziegler M, Nowak W, von Dorsche HH *Endokrinologie* 68: 327-37, 1976 (Eng) DL/77MAY74

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ANIMAL EXPERIMENTS (analysis); COCONUT; CORONARY DISEASE (mortality); DIET, ATHEROGENIC; DIETARY FATS (adverse effects); DISEASE MODELS, ANIMAL; FATTY ACIDS (adverse effects); HELIANTHUS; HUMAN; HYDROGENATION; LINOLEIC ACIDS (adverse effects); MALE; MONOGRAPH (mortality); OILS; OLEIC ACIDS (adverse effects); PLATELET AGGREGATION (drug effects); RATS; SEEDS; THROMBOSIS (etiology); TIME FACTORS.

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); AMINOTRANSFERASES (biosynthesis); ANIMAL; APOENZYMS (biosynthesis); CASEIN (metabolism); COMPARATIVE STUDY; DEXAMETHASONE (pharmacodynamics); ENZYME INDUCTION; GLUCAGON (pharmacodynamics); LIVER (metabolism); MALE; ORNITHINE AMINOTRANSFERASE (biosynthesis); PHOSPHENOLPYRUVATE CARBOXYKINASES (biosynthesis); PYRIDOXAL PHOSPHATE; PYRIDOXINE DEFICIENCY (enzymology); RATS; SERINE DEHYDRATASE (biosynthesis); TYROSINE AMINOTRANSFERASE (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ADULT; CASE REPORT; CREATININE (blood); DIABETIC NEPHROPATHIES (drug therapy); FEMALE; FUROSEMIDE (adverse effects, blood); HALF-LIFE; HUMAN; KIDNEY FAILURE, CHRONIC (drug therapy); KIDNEY (transplantation); MALE; POLYURIA (chemically induced); TRANSPLANTATION, HOMOLOGOUS.

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BLOOD SUGAR (analysis); CHOLESTEROL (blood); COMPARATIVE STUDY; DIET, CARIOGENIC; FRUCTOSE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; LACTATES (blood); LIPIDS (metabolism); SUCROSE; TRIGLYCERIDES (blood); URIC ACID (metabolism); XYLITOL.

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EFFECTS OF HANGOVER ON PSYCHOMOTOR SKILLS RELATED TO DRIVING: MODIFICATION BY FRUCTOSE AND GLUCOSE. Seppala T, Leino T, Linnola M, Huttunen M, Ylikahri R *Acta Pharmacol Toxicol (Kbh)* 38: 209-18, Mar 76 (Eng) \*DL/77MAY624

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## Ignatov M

INSULIN (administration & dosage, therapeutic use); MALE; MIDDLE AGE; SURGERY, OPERATIVE.

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ALANINE AMINOTRANSFERASE (blood); ALKALINE PHOSPHATASE (blood); ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (blood); BLOOD SUGAR (analysis); BLOOD (drug effects); CHICKENS; CHOLESTEROL (blood); CHOLINESTERASES (blood); ENGLISH ABSTRACT; ENZYME ACTIVATION (drug effects); FENTHION (poisoning); INSECTICIDES, ORGANOETHIOPHOSPHATE (poisoning); PHORATE (poisoning); POISONING (blood); TIME FACTORS.

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CHILD; DENTAL ENAMEL (pathology); ENGLISH ABSTRACT; FLUORIDES (urine); GLYCOSURIA; HUMAN; HYDROGEN-ION CONCENTRATION (physiology); JAPAN; MOTTLED ENAMEL (occurrence).

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DOSE-RESPONSE RELATIONSHIP, DRUG; MONOGRAPH (mortality); PEPTIDE FRAGMENTS (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP.

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**ADULT; AGED; DIABETES MELLITUS (enzymology, metabolism); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (pharmacodynamics); LEUKOCYTES (enzymology); MALE; MIDDLE AGE; NADH, NADPH OXIDOREDUCTASES (antagonists & inhibitors, metabolism); SUCCINATE DEHYDROGENASE (metabolism); UBIQUINONE (blood).**

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**ALANINE (metabolism); AMINO ACIDS (metabolism); AMINOISOBUTYRIC ACID (metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); DEXAMETHASONE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSE (biosynthesis); HORMONES (pharmacodynamics); INSULIN (pharmacodynamics); LACTATES (metabolism); LIVER (cytology); PYRUVATES (metabolism); RATS; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).**

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ADIPOSE TISSUE (metabolism); ANIMAL; GLUCOSE (metabolism, pharmacodynamics); INSULIN RESISTANCE; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MALE; MUSCLES (metabolism); PREDIABETIC STATE (metabolism); RATS.  
PANCREATIC B-CELL BEHAVIOUR AFTER CHANGING THE NATURAL ENVIRONMENT OF SAND RATS (PSAMMOMYS OBEUS)

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CELIAC DISEASE (complications, immunology); DIABETES MELLITUS, JUVENILE (complications, immunology); HISTOCOMPATIBILITY ANTIGENS (analysis); HLA-A (analysis); HUMAN.

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[GROWTH HORMONE CONTENT OF BLOOD IN HEALTH ADOLESCENTS AND IN THOSE WITH EXCESSIVE WEIGHT AND HEREDITARY DIABETES MELLITUS ACCORDING TO A STANDARD GLUCOSE TOLERANCE TEST] Morozova TP, Kolesov DV *Pediatr* 44-6, Sep 76 (Rus) DL/77MAY358

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A THIRD DIABETIC SHOCK SYNDROME: HYPEROSMOLAR HYPERGLYCEMIC NONKETOTIC COMA. Kolin M *JEN* 3: 15-7, Jan-Feb 77 (Eng) DL/77MAY241  
DIABETIC COMA (therapy); EMERGENCIES; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (therapy).

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HEALTH EDUCATION; HUMAN.

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MEASUREMENT OF GLUCOSE IN PLASMA, WITH USE OF IMMOBILIZED GLUCOSE OXIDASE AND PEROXIDASE. Kiang SW, Kuan JW, Kuan SS, Guilbault GG *Clin Chem* 22: 1378-82, Aug 76 (Eng) \*DL/77MAY547

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SHORT-TERM EFFECTS OF NORETHISTERONE OENANTHATE AND MEDROXYPROGESTERONE ACETATE ON GLUCOSE, INSULIN, GROWTH HORMONE, AND LIPIDS. Dhali K, Kumar M, Rastogi GK,

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ADOLESCENCE; ADULT; BLOOD SUGAR; DIPHOSPHOGLYCERIC ACIDS (metabolism); ERYTHROCYTES (metabolism); EXERTION; FATTY ACIDS, NONESTERIFIED (blood); HEMATOCRIT; HEMOGLOBINS (metabolism); HUMAN.

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ANIMAL; BIOLOGICAL TRANSPORT; CHICK EMBRYO (metabolism); CHROMATOGRAPHY; DEOXYGLUCOSE (metabolism); EXTRACELLULAR SPACE; GLUCOSE (metabolism); HEART (embryology); INSULIN (physiology); KINETICS; MYOCARDIUM (metabolism); SUCROSE (metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; ESTRADIOL (pharmacodynamics); FEMALE; HUMAN; HYPOTHALAMUS (physiology); LH-FSH RELEASING HORMONE (pharmacodynamics); MODELS, BIOLOGICAL; MONOGRAPH (mortality); PITUITARY GLAND (drug effects, metabolism); PITUITARY GLAND, ANTERIOR (metabolism); PITUITARY HORMONE RELEASING HORMONES (pharmacodynamics); PROLACTIN (blood); PROSTAGLANDINS E (pharmacodynamics); RATS; RECEPTORS, HORMONE (drug effects); REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics);

THYROID HORMONES (pharmacodynamics); THYROTROPIN RELEASING HORMONE (metabolism, pharmacodynamics); THYROTROPIN (metabolism); THYROXINE (metabolism).

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THE EFFECT OF DOPAMINE INFUSION ON INSULIN AND GLUCAGON SECRETION IN MAN. Leblanc H, Lachelin GC, Abu-Fadil S, Yen SS *J Clin Endocrinol Metab* 44: 196-8, Jan 77 (Eng) DL/77MAY168

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[SUGARS NATURALLY LABELLED WITH <sup>13</sup>C. THEIR VALUE FOR METABOLIC STUDIES IN MAN] Lefebvre P, Mosora F, Lacroix M, Luyckx A, Pirnay F, Duchesne J *Journ Annu Diabetol Hotel Dieu* 187-94, May 76 (Fre) DL/77MAY246

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EVIDENCE FOR AN IMPORTANT ROLE OF GLUCAGON IN THE REGULATION OF HEPATIC GLUCOSE PRODUCTION IN NORMAL MAN. Liljenquist JE, Mueller GL, Cherrington AD, Keller U, Chiasson J-L, Perry JM, Lacy WW, Rabinowitz D *J Clin Invest* 59: 369-74, Feb 77 (Eng) DL/77MAY175

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[THE CLINICAL SPECTRUM OF THE ZOLLINGER-ELLISON SYNDROME. TYPICAL AND ATYPICAL ASPECTS IN 6 CASES] Lammli J, Ammann R, Knoblauch M, Largiadier F, Saubert H, Hedinger C, Joris F, Woodth W, Siegenthaler W *Schweiz Med Wochenschr* 106: 1745-7, 4 Dec 76 (Ger) DL/77MAY398

ADENOMA (analysis); ADULT; AGED; CUSHINGS SYNDROME (etiology); GASTRIC JUICE (analysis); GASTRIN (analysis); GLUCAGON (analysis); HUMAN; HYPERCALCEMIA (etiology); HYPERINSULINISM (etiology); ISLANDS OF LANGERHANS; MIDDLE AGE; PANCREATIC NEOPLASMS (etiology); PEPTIC ULCER (etiology); ZOLLINGER-ELLISON SYNDROME (complications).

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HLA-HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE ONSET DIABETES MELLITUS (JOD) [PROCEEDINGS]. Landgraf R, Lander T, Landgraf-Leurs MM, Scholz S, Albert ED *Diabetes Metab* 2: 160, Sep 76 (Eng) DL/77MAY113

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DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); GLUCOSE TOLERANCE TEST; HISTOCOMPATIBILITY ANTIGENS (analysis); HLA-A (analysis); HUMAN.

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PRINCIPAL CELL TYPES IN THE PANCREATIC ISLET OF A TELEOST FISH, XIPHOPHORUS HELLERI H. Klein C, Lang RH *Cell Tissue Res* 176: 529-51, 24 Jan 77 (Eng) DL/77MAY26

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ANIMAL; CRYSTALLOGRAPHY; CYTOPLASMIC GRANULES (metabolism); DOGS; FISHES; GLUCAGON (analysis); INSULIN (analysis); ISLANDS OF LANGERHANS (secretion, ultrastructure); MONOGRAPH (mortality); REVIEW; SALAMANDERS; SNAKES.

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[INFLUENCE OF GENETIC FACTORS, OF ULCEROGENIC DRUGS AND OF A SOUND DISEASE ON BOTH THE INCIDENCE AND CHARACTERISTICS OF PEPTIC ULCER] Langman MJS *Recent Prog Med (Roma)* 62: 1-22, Jul 76 (Ita) DL/77MAY383

ADRENAL CORTIX HORMONES (adverse effects); ASPIRIN (adverse effects); CARDIOVASCULAR DISEASES (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HUMAN; KIDNEY FAILURE, CHRONIC (complications); PANCREATIC DISEASES (complications); PEPTIC ULCER (chemically induced, etiology, familial & genetic, physiopathology).

## Lanoe R

[PLATELET AGGREGATION AND VON WILLEBRANDS FACTOR IN 32 INSULIN-DEPENDENT DIABETICS. VALUE OF THE MEASUREMENT OF FILTRATION PRESSURE IN THE PRESENCE OF ADP] Prost-Dvojakovic RJ, Lecrubier C, Lanoe R, Batchvarova V, Samama M, NOE R 0007 *Journ Annu Diabetol Hotel Dieu* 239-47, May 76 (Fre) DL/77MAY251

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PHOSPHATIDYLINOSITOL METABOLISM AND MYOINOSITOL 1, 2-CYCLIC PHOSPHATE ACTION IN SMOOTH MUSCLE. Lapetina EG, Zieher LM *Adv Exp Med Biol* 72: 257-63, 1976 (Eng) \*ID/77MAY638

CATS; DEOXYCHOLIC ACID (pharmacodynamics); EGTA (pharmacodynamics); GUINEA PIGS; INOSITOL (metabolism); KINETICS; MALE; MUSCLE, SMOOTH (metabolism); NOREPINEPHRINE (pharmacodynamics); ORGANOPHOSPHORUS COMPOUNDS (metabolism); PHOSPHATIDYL INOSITOL (metabolism); PHOSPHOINOSITIDES (metabolism); PHOSPHOLIPIDS (metabolism); RABBITS; RATS; SPLEEN (drug effects, metabolism); VAS DEFERENS (drug effects, metabolism).

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ACID-BASE EQUILIBRIUM; ACIDOSIS, DIABETIC (etiology); ADOLESCENCE; ADULT; AGED; BICARBONATES (blood); CASE REPORT; DIABETES MELLITUS (complications, metabolism); FEMALE; HUMAN; LACTATES (blood, metabolism); LIVER DISEASES (metabolism); MALE; MIDDLE AGE; RESUSCITATION; REVIEW; SHOCK (complications, metabolism).

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ANIMAL; CATS; CHICKENS; CYTOPLASMIC GRANULES (analysis); DOGS; ENTEROCHROMAFFIN CELLS (analysis); GASTRIC MUCOSA (analysis); GASTRIN (analysis); GASTROINTESTINAL HORMONES (analysis); GLUCAGON (analysis); INSULIN (analysis); INTESTINAL MUCOSA (analysis); ISLANDS OF LANGERHANS (analysis); MONOGRAPH (mortality); PANCREATIC HORMONES (analysis); PEPTIDES (analysis); RATS; REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis); SUBSTANCE P (analysis).

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EFFECT OF ENDOGENOUS AND EXOGENOUS GLUCAGON ON PENTAGASTRIN-STIMULATED LOWER ESOPHAGEAL SPHINCTER PRESSURE IN MAN. Christiansen J, Lauritzen K, Moesgaard J, Holst JJ *Scand J Gastroenterol* 12: 33-6, 77 (Eng) DL/77MAY388

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[LIPOPROTEINS AND METFORMIN] Lavieville M, Brohon J, Gut M *Journ Annu Diabetol Hotel Dieu* 349-54, May 76 (Fre) DL/77MAY263

ANIMAL; AORTA (metabolism); LIPOPROTEINS, VLDL (blood, metabolism); METFORMIN (pharmacodynamics); RABBITS.

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[INFECTION AND IMMUNOREACTIVITY WITH REFERENCE TO INSULIN] Czyzyk A, Rogala H, Symonides-Laweck A, Laweck J, Beischer W, Thum C, Clemens AH *Journ Annu Diabetol Hotel Dieu* 45-58, May 76 (Fre) DL/77MAY266

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IMPROVED TOLERANCE TO SUCCESSIVE GLUCOSE LOADS IN ACROMEGALY. Abaira C, Lawrence AM *Metabolism* 26: 287-93, Mar 77 (Eng) DL/77MAY312

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ADIPOSE TISSUE (drug effects, enzymology); ANIMAL; ENZYME ACTIVATION (drug effects); GLYCOGEN SYNTHETASE (metabolism); GLYCOLYSIS (drug effects); IN VITRO; INSULIN (pharmacodynamics); KINETICS; MALE; RATS; TIME FACTORS; TRYPSIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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EVALUATION OF DIFFERENT APPROACHES TO OBSTETRIC CARE: PART I. Chalmers I, Lawson JG, Turnbull AC *Br J Obstet Gynaecol* 83: 921-9, Dec 76 (Eng) DL/77MAY6

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FETAL AND NEONATAL RAT PANCREAS IN ORGAN CULTURE: AGE-RELATED EFFECTS OF CORTICOSTERONE ON THE ACINAR CELL COMPONENT. McEvoy RC, Hegre OD, Lazarow A *Am J Anat* 146: 133-49, Jun 76 (Eng) \*DL/77MAY643

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THE EFFECT OF DOPAMINE INFUSION ON INSULIN AND GLUCAGON SECRETION IN MAN. Leblanc H, Lachelin GC, Abu-Fadil S, Yen SS *J Clin Endocrinol Metab* 44: 196-8, Jan 77 (Eng) DL/77MAY168

ADULT; BLOOD SUGAR (metabolism); DOPAMINE (pharmacodynamics); EATING; FEMALE; GLUCAGON (blood); HUMAN; INSULIN (blood); MALE.

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THE EFFECT OF INOTROPIC AGENTS ON GLYCEROL RELEASE AND PROTEIN KINASE ACTIVITY RATIOS IN THE ISOLATED PERFUSED RAT HEART. Jesmok GJ, Calvert DN, Lech JJ *J Pharmacol Exp Ther* 200: 187-94, Jan 77 (Eng) DL/77MAY219

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IMMUNOHISTOCHEMICAL LOCALIZATION OF HUMAN PANCREATIC POLYPEPTIDE (HPP) IN THE HUMAN ENDOCRINE PANCREAS. Pelletier G, Leclerc R *Gastroenterology* 72: 569-71, Mar 77 (Eng) DL/77MAY127

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ADRENAL GLANDS (physiopathology); ADULT; CALCIUM (metabolism); CATARACT (etiology); DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FEMALE; GLUCOSE (metabolism); GONADS (physiopathology); HUMAN; HYPERINSULINISM (etiology); HYPOTHALAMUS (physiopathology); MALE; MYOTONIA ATROPHICA (complications, diagnosis, metabolism, physiopathology); MYXEDEMA (etiology); PHOSPHORUS (metabolism); PITUITARY GLAND (physiopathology); REVIEW; TESTOSTERONE (metabolism); THYROID GLAND (physiopathology); 17-HYDROXYCORTICOSTEROIDS (metabolism); 17-KETOSTEROIDS (metabolism).

#### Lecrubier C

**[PLATELET AGGREGATION AND VON WILLEBRANDS FACTOR IN 32 INSULIN-DEPENDENT DIABETICS. VALUE OF THE MEASUREMENT OF FILTRATION PRESSURE IN THE PRESENCE OF ADP]** Prost-Dvojakovic RJ, Lecrubier C, Lanoe R, Batchvarova V, Samama M, NOE R 0007 *Journ Annu Diabetol Hotel Dieu* 239-47, May 76 (Fre) DL/77MAY251

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**CLINICAL AND PATHOPHYSIOLOGICAL EVALUATION OF ESOPHAGEAL AND RECONSTRUCTION USING GASTRIC TUBE AND PEDICLED COLON SEGMENT.** Lee K, Fujimaki M, Soga J, Kawaguchi M, Muto T *Jpn J Surg* 6: 109-18, Sep 76 (Eng) DL/77MAY238

AGED; COLON (surgery, transplantation); ESOPHAGEAL NEOPLASMS (physiopathology, surgery); ESOPHAGOGASTRY (methods); FEMALE; GASTRIC JUICE (analysis); GASTRIN (blood); GLUCOSE TOLERANCE TEST; HUMAN; IRON (metabolism); MALE; MIDDLE AGE; NUTRITION; POSTOPERATIVE COMPLICATIONS (poisoning); STOMACH (metabolism, secretion, surgery); TRANSPLANTATION, AUTOLOGOUS; VITAMIN B 12 (blood).

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**ALLOXAN DIABETIC NEUROPATHY: ELECTRON MICROSCOPIC STUDIES.** Powell H, Knox D, Lee S, Charters AC, Orloff M, Garrett R, Lampert P *Neurology (Minneapolis)* 27: 60-6, Jan 77 (Eng) DL/77MAY335

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**DECREASE IN POSTPRANDIAL INSULIN AND GLUCOSE CONCENTRATIONS BY GUAR AND PECTIN.** Jenkins DJ, Leeds AR, Gassull MA, Cochet B, Alberti GM *Ann Intern Med* 86: 20-3, Jan 77 (Eng) DL/77MAY497

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**STRUCTURAL REQUIREMENTS FOR THE BIOLOGICAL ACTIVITY OF NEUROTENSIN, A NEW VASOACTIVE PEPTIDE.** PP. 679-85. Cartaway R, Leeman S. In: *Walter R, Meienhofer J, ed. Peptides: chemistry, structure and biology.* Ann Arbor, Ann Arbor Science Publishers, 1975. W3 AM595 1975p. (Eng) DL/77MAY206

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**[SUGARS NATURALLY LABELLED WITH <sup>13</sup>C. THEIR VALUE FOR METABOLIC STUDIES IN MAN]** Lefebvre P, Mosora F, Lacroix M, Luyckx A, Pirnay F, Duchesne J *Journ Annu Diabetol Hotel Dieu* 187-94, May 76 (Fre) DL/77MAY246

BLOOD SUGAR (analysis); CARBON ISOTOPES (metabolism); DIABETES MELLITUS (metabolism); GLUCOSE (metabolism); HUMAN; ISOTOPE LABELING; OBESITY (metabolism).

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**HEPATIC PROLIFERATION CONTROL BY PURINES, HORMONES, AND NUTRIENTS.** PP. 21-33. Koch KS, Leffert HL, Moran T. In: *Fishman WH, Sell S, ed. Onco-developmental gene expression.* New York, Academic Press, 1976. QZ 200 O581 1976. (Eng) DL/77MAY182

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**[ULTRASTRUCTURAL IDENTIFICATION AND IMMUNOCYTOCHEMICAL STUDY OF SOMATOSTATIN CELLS IN ANTRAL MUCOSA OF THE RABBIT AND THE MOUSE (AUTHORS TRANSL.)]** Lefrane G, Pradal G, Andree MJ, Dubois MP *Histochemistry* 47: 31-41, 21 Apr 76 (Fre) \*DL/77MAY562

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**INSULIN RECEPTOR SITES AS MEMBRANE MARKERS DURING EMBRYONIC DEVELOPMENT. I. DATA OBTAINED WITH UNFERTILIZED AND FERTILIZED SEA URCHIN EGGS.** Jeanmart J, Uytendhoeft P, De Sutter G, Legros F *Differentiation* 7: 23-30, 2 Nov 76 (Eng) DL/77MAY125

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**HORMONE DEPENDENCY OF RAT MAMMARY TUMORS.** PP. 81-93. Heuson JC, Legros N, Heuson-Stiennon JA, Leclercq G, Pasteels JL. In: *Heuson J, et al., ed. Breast cancer.* New York, Raven, 1976. W3 E35 1975b. (Eng) DL/77MAY203

#### Leibel BS

**[PHYSIOPATHOLOGY OF DIABETES AND THE ARTIFICIAL ENDOCRINE PANCREAS]** Al-bisser AM, Leibel BS, Marliss EB, Zimman B, Botz CK, Zingg W, Murray FT, Denoga A, NOE R 0007, Soga J, Kawaguchi M, Muto T *Journ Annu Diabetol Hotel Dieu* 259-68, May 76 (Fre) DL/77MAY253

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**EFFECTS OF HANGOVER ON PSYCHOMOTOR SKILLS RELATED TO DRIVING: MODIFICATION BY FRUCTOSE AND GLUCOSE.** Seppala T, Leino T, Linnoila M, Huttunen M, Ylikahri R *Acta Pharmacol Toxicol (Kbh)* 38: 209-18, Mar 76 (Eng) \*DL/77MAY624

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**CORONARY ANGIOGRAPHY AND ACUTE RENAL FAILURE IN DIABETIC AZOTEMIC NEPHROPATHY.** Weinrauch LA, Healy RW, Leland OS Jr, Goldstein HH, Kassissieh SD, Libertino JA, Takacs FJ, Delia JA *Ann Intern Med* 86: 56-9, Jan 77 (Eng) DL/77MAY498

#### Leme JG

**DECREASED VASCULAR REACTIONS TO PERMEABILITY FACTORS IN EXPERIMENTAL DIABETES.** Llorach MA, Bohm GM, Leme JG *Br J Exp Pathol* 57: 747-54, Dec 76 (Eng) DL/77MAY4

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**THE EFFECT OF HYDROCORTISONE TREATMENT AND ADRENALECTOMY ON INSULIN AND GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS.** Lenzen S *Endokrinologie* 68: 189-97, 1976 (Eng) DL/77MAY66

ADRENAL GLANDS (physiology); ADRENALECTOMY; ANIMAL; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MALE; PERFUSION; RATS; TOLBUTAMIDE (pharmacodynamics).

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**[DEGENERATIVE COMPLICATIONS AFTER 10 YEARS OF JUVENILE DIABETES]** Francois R, Mamelie N, Leonetti P, Jarlot B, Gillet P, David L, Tardieu M, Soga J, Kawaguchi M, Muto T *Journ Annu Diabetol Hotel Dieu* 135-56, May 76 (Fre) DL/77MAY243

#### Lernmark A

**EFFECTS OF DEXTRAN-LINKED CHLOROMERCURIBENZOIC ACID ON INSULIN RELEASE FROM MICRODISSECTED PANCREATIC ISLETS.** Akerstrom S, Hellman B, Lernmark A, Lindberg B, Soderberg M, Talledal IB *Biochim Biophys Acta* 451: 96-105, 18 Nov 76 (Eng) DL/77MAY10

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**A SYNDROME OF IMMUNOGLOBULIN A DEFICIENCY, DIABETES MELLITUS, MALABSORPTION, A COMMON HLA HAPLOTYPE, IMMUNOLOGIC AND GENETIC STUDIES OF FORTY-THREE FAMILY MEMBERS.** Van Thiel DH, Smith WI Jr, Rabin BS, Fisher SE, Lester R *Ann Intern Med* 86: 10-9, Jan 77 (Eng) DL/77MAY494

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**[WHAT MAY BE OUR REQUIREMENTS IN THE TREATMENT OF JUVENILE DIABETES (PROCEEDINGS)]** Lestrade H, Besse J, Billaud L, Battistelli F, Giron JB *Diabete Metab* 2: 147, Sep 76 (Fre) DL/77MAY97

CHILD; DIABETES MELLITUS, JUVENILE (drug therapy, therapy); HUMAN; INSULIN (therapeutic use).

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**COMPARISON BETWEEN GLUCOSE AND A COMBINATION OF GLUCOSE, FRUCTOSE, AND XYLITOL AS CARBOHYDRATES FOR TOTAL PARENTERAL NUTRITION OF SURGICAL INTENSIVE CARE PATIENTS.** Leutenegger AF, Goschke H, Stutz K, Mannhart H, Werdnberg J, Werdnberg D, Wolff G, Allgower M *Am J Surg* 133: 199-205, Feb 77 (Eng) DL/77MAY486

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR; BODY TEMPERATURE (drug effects); COMPARATIVE STUDY; DRUG COMBINATIONS (administration & dosage); FEMALE; FRUCTOSE (administration & dosage); GLUCOSE (administration & dosage); HUMAN; INSULIN (blood); INTENSIVE CARE UNITS; MALE; MIDDLE AGE; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; POSTOPERATIVE CARE; XYLITOL (administration & dosage).

#### Lev AA

**[COMPARISON OF THE ELECTRICAL AND ISOTOPE CHARACTERISTICS OF IONIC TRANSPORT THROUGH BILATERAL PHOSPHOLIPID MEMBRANES]** Shchagina LV, Grinfeldt AE, Lev AA *Tsitologia* 18: 189-94, Feb 76 (Rus) \*DL/77MAY610

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**DETERMINATION OF GLUCOSE-UTILIZATION IN THE DOG WITH [2-<sup>3</sup>H], [6-<sup>3</sup>H], AND [U-<sup>14</sup>C]GLUCOSE.** Belo PS, Romsos DR, Leveille GA *Proc Soc Exp Biol Med* 152: 475-9, Jul 76 (Eng) \*DL/77MAY602



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UPTAKE AND EXCHANGE OF GABA AND GLUTAMATE IN ISOLATED NERVE ENDINGS. Levi G, Poce U, Raiteri M. *Adv Exp Med Biol* 69: 273-89, 1976 (Eng) \*DL/77MAY634

A-23187 (pharmacodynamics); AMINO BUTYRIC ACIDS (metabolism, pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE; COLD; GLUTAMATES (metabolism); GABA (metabolism); IN VITRO; KINETICS; NERVE ENDINGS (metabolism); OUABAIN (pharmacodynamics); POTASSIUM CHLORIDE (pharmacodynamics); SODIUM (pharmacodynamics); SYNAPTOSOMES (drug effects, metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ).

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BLOOD METABOLITES AND GLUCOSE METABOLISM IN THE FED AND FASTED CHICKEN. Belo PS, Romsos DR, Leville GA. *J Nutr* 106: 1135-43, Aug 76 (Eng) \*DL/77MAY583

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SEVERE PERSISTENT BIPHASIC LOCAL (IMMEDIATE AND LATE) SKIN REACTIONS TO INSULIN. deShazo RD, Levinson AI, Boehm T, Evans R 3d, Ward G Jr. *J Allergy Clin Immunol* 59: 161-4, Feb 77 (Eng) DL/77MAY177

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EARLY DETECTION OF LIPOPROTEIN ABNORMALITIES IN CHILDREN. Tamir I, Helzenberg D, Levtov O, Werbin B. *Parot Arteriel* 3: 137-8, Sep 76 (Eng) DL/77MAY347

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EFFECT OF DIET COMPOSITION ON METABOLIC ADAPTATIONS TO HYPOCALORIC NUTRITION: COMPARISON OF HIGH CARBOHYDRATE AND HIGH FAT ISOCALORIC DIETS. Lewis SB, Wallin JD, Kane JP, Gerich JE. *Am J Clin Nutr* 30: 160-70, Feb 77 (Eng) DL/77MAY476

ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); BODY WEIGHT; COMPARATIVE STUDY; DIET, REDUCING; DIETARY CARBOHYDRATES (metabolism); DIETARY FATS (metabolism); GLUCAGON (metabolism); HUMAN; INSULIN (metabolism); LIPIDS (metabolism); MALE; OBESITY (diet therapy, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ); URIC ACID (blood).

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ETIOLOGY OF RETINAL VENOUS THROMBOSES. Algan B, Leyder C, Marchal H, Geoffroy D, Marquis A. *Bull Soc Belge Ophthalmol* 172: 631-6, 7 Mar 76 (Fre) DL/77MAY12

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ULTRASTRUCTURAL IDENTIFICATION AND IMMUNOCYTOCHEMICAL STUDY OF SOMATOSTATIN CELLS IN ANTRAL MUCOSA OF THE RABBIT AND THE MOUSE (AUTHORS TRANSL.) L'Hermite A, Lefrane G, Pradal G, Andree MJ, Dubois MP. *Histochemistry* 47: 31-41, 21 Apr 76 (Fre) \*DL/77MAY562

ANIMAL EXPERIMENTS (analysis); CYTOPLASMIC GRANULES (ultrastructure); ENGLISH ABSTRACT; GASTRIC MUCOSA (analysis, ultrastructure); LEVODOPA (pharmacodynamics); MICE; PYLORIC ANTRUM (analysis); RABBITS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis); STAINS AND STAINING.

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THE EFFECT OF PROXIMAL GASTRIC VAGOTOMY ON ULCER HEALING. Liavag I. *Scand J Gastroenterol [Suppl]* 147-53, 1976 (Eng) DL/77MAY390

CHRONIC DISEASE; DYSPEPSIA (etiology); FEMALE; GASTRIC JUICE (secretion); HUMAN; INSULIN (diagnostic use); MALE; PENTAGASTRIN (pharmacodynamics); PEPTIC ULCER (surgery); POSTOPERATIVE COMPLICATIONS (mortality); RECURRENCE; SECRETORY RATE (drug effects); VAGOTOMY.

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CORONARY ANGIOGRAPHY AND ACUTE RENAL FAILURE IN DIABETIC AZOTEMIC NEPHROPATHY. Weinrauch LA, Healy RW, Leland OS Jr, Goldstein HH, Kassissieh SD, Libertino JA, Takacs FJ, Delia JA. *Ann Intern Med* 86: 56-9, Jan 77 (Eng) DL/77MAY498

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HUMAN; HYPOGLYCEMIA.

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EVIDENCE FOR AN IMPORTANT ROLE OF GLUCAGON IN THE REGULATION OF HEPATIC GLUCOSE PRODUCTION IN NORMAL MAN. Liljenquist JE, Mueller GL, Cherrington AD, Keller U, Chiasson J-L, Perry JM, Lacy WW, Rabinowitz D. *J Clin Invest* 59: 369-74, Feb 77 (Eng) DL/77MAY175

ADOLESCENCE; ADULT; GLUCAGON (blood, physiology); GLUCOSE (biosynthesis); HUMAN; INSULIN (blood, pharmacodynamics); LIVER (metabolism); MALE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[CARBOHYDRATE METABOLISM IN THE POSTOPERATIVE PERIOD. EXPERIMENTAL STUDY] Lima-Goncalves E, Fontana Margarido N, Machado MC, Gonzalez Y. *Rev Hosp Clin Fac Med Sao Paulo* 31: 461-73, Nov-Dec 76 (Por) DL/77MAY386

ANIMAL; CARBOHYDRATES (metabolism); COMPARATIVE STUDY; DOGS; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; MALE; METABOLIC DISEASES (diagnosis); PNEUMONECTOMY; POSTOPERATIVE COMPLICATIONS (diagnosis, metabolism); TIME FACTORS.

## Lindberg B

EFFECTS OF DEXTRAN-LINKED CHLOROMERCURIBENZOIC ACID ON INSULIN RELEASE FROM MICRODISSECTED PANCREATIC ISLETS. Akerstrom S, Hellman B, Lernmark A, Lindberg B, Soderberg M, Talledal IB. *Biochim Biophys Acta* 451: 96-105, 18 Nov 76 (Eng) DL/77MAY10

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STUDIES ON THE VASCULAR EXCHANGE FUNCTION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Linde B. *Acta Physiol Scand [Suppl]* 1-43, 1976 (Eng) \*DL/77MAY626

ADIPOSE TISSUE (blood supply, metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT (drug effects); BLOOD PRESSURE (drug effects); CAPILLARY PERMEABILITY (drug effects); DIHYDROERGOTAMINE (pharmacodynamics); DOGS; ELECTRIC STIMULATION; FEMALE; HISTAMINE (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PARTIAL PRESSURE; PROPRANOLOL (pharmacodynamics); PROSTAGLANDINS E (pharmacodynamics); REGIONAL BLOOD FLOW (drug effects); SYMPATHETIC NERVOUS SYSTEM (drug effects, physiology).

EFFECT OF SYMPATHETIC NERVE STIMULATION ON NET TRANSVASCULAR MOVE-

MENT OF FLUID IN CANINE ADIPOSE TISSUE. Linde B. *Acta Physiol Scand* 97: 166-74, Jun 76 (Eng) \*DL/77MAY628

ADIPOSE TISSUE (blood supply); ANIMAL EXPERIMENTS (analysis); BLOOD PRESSURE (drug effects); BLOOD VOLUME (drug effects); BODY FLUIDS (physiology); CAPILLARY PERMEABILITY (drug effects); DOGS; DOSE-RESPONSE RELATIONSHIP; DRUG; ELECTRIC STIMULATION; FEMALE; GLUCOSE (administration & dosage, pharmacodynamics); PROPRANOLOL (pharmacodynamics); REGIONAL BLOOD FLOW (drug effects); SYMPATHETIC NERVOUS SYSTEM (physiology); VASCULAR RESISTANCE (drug effects).

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PROTON MOVEMENTS COUPLED TO LACTATE AND ALANINE TRANSPORT IN ESCHERICHIA COLI: ISOLATION OF MUTANTS WITH ALTERED STOICHIOMETRY IN ALANINE TRANSPORT. Collins SH, Jarvis AW, Lindsay RJ, Hamilton WA. *J Bacteriol* 126: 1232-44, Jun 76 (Eng) \*DL/77MAY563

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REGULATION OF CASEIN SYNTHESIS BY POLYAMINES IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA, Linebaugh BE, Mulder JA. *Endocrinology* 100: 529-36, Feb 77 (Eng) DL/77MAY62

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ISOLATION AND CHARACTERIZATION OF HYPOTHALAMIC PEPTIDE HORMONES. PP. 355-72. Burgess R, Amoss M, Brazeau P, Brown M, Ling N, Rivier C, Rivier J, Vale W, Villarreal J. In: Labrie F, et al., ed. *Hypothalamus and endocrine functions*. New York, Plenum Press, 1976. W1 CU82M v.3 1976. (Eng) [50 ref.] \*DL/77MAY577

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EFFECTS OF HANGOVER ON PSYCHOMOTOR SKILLS RELATED TO DRIVING: MODIFICATION BY FRUCTOSE AND GLUCOSE. Seppala T, Leino T, Linnola M, Huttunen M, Ylikahri R. *Acta Pharmacol Toxicol (Khh)* 38: 209-18, Mar 76 (Eng) \*DL/77MAY624

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[TRANSPLANTATION OF ISOLATED ISLETS OF LANGERHANS INTO THE LIVER OF DIABETIC DOGS (AUTHORS TRANSL.) Lorenz D, Reding R, Petermann J, Beckert R, Worm V, Tietz W, Rosenbaum KD, Lippert H, Dorn A, Koch G. *Zentralbl Chir* 101: 1359-68, 1976 (Ger) DL/77MAY450

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[RADIOISOTOPE STUDIES OF CENTRAL HEMODYNAMICS IN PATIENTS WITH DIABETES MELLITUS] Slavnov VN, Litvinenko AF, Markov VV. *Ter Arkh* 48: 91-6, 1976 (Rus) DL/77MAY409

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EFFECT OF THYROIDECTOMY AND IN VIVO ADMINISTRATION OF TRIIODOTHYRONINE ON DNA SYNTHESIS IN ISOLATED MITOCHONDRIA. Liverini G, Martino G, Barletta A, Di Meo S, De Leo T. *Ital J Biochem* 25: 115-26, Mar-Apr 76 (Eng) \*DL/77MAY561

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; DNA NUCLEOTIDYL TRANSFERASES (metabolism); DNA (biosynthesis); ETHIDIUM (pharmacodynamics); GLUCOSEPHOSPHATASE (metabolism); KINETICS; MALE; MITOCHONDRIA, LIVER (drug effects, metabolism); PERMEABILITY; PYROPHOSPHATASES (metabolism); RATS; THYMIDINE KINASE (metabolism);



Livesey JH

THYROIDECTOMY; THYROXINE (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics).

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THE NATURE OF PITUITARY LARGE GROWTH HORMONE AS STUDIED BY IMMUNOABSORPTION. Livesey JH, Rubinstein D, Beck JC *Ciba Found Symp* 41: 77-95, 1976 (Eng) \*DL/77MAY553

ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; CROSS REACTIONS; MOLECULAR WEIGHT; PITUITARY GLAND (metabolism); SOMATOTROPIN (biosynthesis, immunology); SWINE; THIOCYANATES.

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[SOMATOTROPIC FUNCTION OF THE HYPOPHYSIS IN ARTERIOSCLEROSIS] Gorbachev VV, Livshits IB *Klin Med (Mosk)* 54: 105-8, Aug 76 (Rus) DL/77MAY283

Llorach MA

DECREASED VASCULAR REACTIONS TO PERMEABILITY FACTORS IN EXPERIMENTAL DIABETES. Llorach MA, Bohm GM, Leme JG *Br J Exp Pathol* 57: 747-54, Dec 76 (Eng) DL/77MAY4

ALLOXAN DIABETES (physiopathology); ANIMAL; BLOOD VESSELS (physiopathology); CAPILLARIES (ultrastructure); CAPILLARY PERMEABILITY (drug effects); HISTAMINE (pharmacodynamics); INSULIN (physiology); MALE; MICROSCOPY, ELECTRON; MUSCLES (blood supply); RATS; SEROTONIN (pharmacodynamics).

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PHOSPHOLIPID TRANSFER BETWEEN PLASMA AND PLATELETS IN VITRO. Joist JH, Dolezel G, Lloyd JV, Mustard F *Blood* 48: 199-211, Aug 76 (Eng) \*DL/77MAY544

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CHROMATOGRAPHIC SEPARATION OF GLUCOSE AND MANNOSE ON CATION-EXCHANGE RESIN. Thomas J, Lobel LH *Anal Biochem* 73: 222-6, 21 May 76 (Eng) \*DL/77MAY646

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INCREASE IN CEREBRAL FLUIDS IN RATS AFTER TREATMENT WITH HEXACHLOROPHANE OR TRIETHYL TIN. Lock EA *Biochem Pharmacol* 25: 1455-8, 1 Jul 76 (Eng) \*DL/77MAY671

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BRAIN (metabolism); CEREBROSPINAL FLUID (drug effects); GLUCOSE (metabolism); HEXACHLOROPHENE (pharmacodynamics); MALE; PHOSPHOCREATINE (metabolism); RATS; TIME FACTORS; TRIALKYL TIN COMPOUNDS (pharmacodynamics); TRIETHYL TIN COMPOUNDS (pharmacodynamics); WATER (metabolism).

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DIET AND THE DIABETIC [LETTER]. Dorchy H, Loeb H, Ernould C *Br Med J* 2: 1447, 11 Dec 76 (Eng) DL/77MAY17

[DIAGNOSIS OF JUVENILE DIABETIC RETINOPATHY USING FLUORESCIN ANGIOGRAPHY. DESCRIPTION OF INITIAL LESIONS] Dorchy H, Toussaint D, Devroede M, Ernould C, Loeb H *Nouv Presse Med* 6: 345-7, 5 Feb 77 (Fre) DL/77MAY360

Logie AR

A RELATIONSHIP BETWEEN FUNCTIONAL AGE AND HEALTH STATUS IN FEMALE SUBJECTS. Webster IW, Logie AR *J Gerontol* 31: 546-50, Sep 76 (Eng) \*DL/77MAY569

Longstreth GF

ABDOMINAL PAIN CAUSED BY DIABETIC RADICULOPATHY. Longstreth GF, Newcomer AD *Ann Intern Med* 86: 166-8, Feb 77 (Eng) DL/77MAY500

ABDOMEN; AGED; CASE REPORT; DIABETIC NEUROPATHIES (diagnosis); ELECTROMYOGRAPHY; FEMALE; HUMAN; MALE; MIDDLE AGE; PAIN (etiology); SPINAL NERVE ROOTS.

METOCLOPRAMIDE STIMULATION OF GASTRIC MOTILITY AND EMPTYING IN DIABETIC GASTROPARESIS [LETTER]. Longstreth GF, Malagelada JR, Kelly KA *Ann Intern Med* 86: 195-6, Feb 77 (Eng) DL/77MAY502

ADULT; DIABETIC NEUROPATHIES (complications); FEMALE; GASTROINTESTINAL MOTILITY (drug effects); HUMAN; METOCLOPRAMIDE (therapeutic use); STOMACH DISEASES (drug therapy, etiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Lorenz D

[TRANSPLANTATION OF ISOLATED ISLETS OF LANGERHANS INTO THE LIVER OF DIABETIC DOGS (AUTHORS TRANSL.)] Lorenz D, Reding R, Petermann J, Beckert R, Worm V, Tietz W, Rosenbaum KD, Lippert H, Dorn A, Koch G *Zentralbl Chir* 101: 1359-68, 1976 (Ger) DL/77MAY450

ALLOXAN DIABETES (surgery); ANIMAL; DOGS; ENGLISH ABSTRACT; FEMALE; ISLANDS OF LANGERHANS (transplantation); LIVER (surgery); MALE; PANCREATICTOMY; TRANSPLANTATION, HOMOLOGOUS.

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CUSHINGS DISEASE: GROWTH HORMONE RESPONSE TO HYPOGLYCEMIA AFTER CORRECTION OF HYPERCORTISOLISM. Tyrrell JB, Wiener-Kronish J, Lorenzi M, Brooks RM, Forsham PH *J Clin Endocrinol Metab* 44: 218-21, Jan 77 (Eng) DL/77MAY170

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DISTRIBUTION OF GROWTH HORMONE AND THYROID-STIMULATING HORMONE IN CEREBROSPINAL FLUID AND PATHOLOGICAL COMPARTMENTS OF THE CENTRAL NERVOUS SYSTEM. Schaub C, Bluet-Pajot MT, Szikla G, Lornet C, Talairach J *J Neurol Sci* 31: 123-31, Jan-Feb 77 (Eng) DL/77MAY212

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TRANSPORT OF D-ALLOSE BY ISOLATED FAT-CELLS: AN EFFECT OF ADENOSINE TRIPHOSPHATE ON INSULIN STIMULATED TRANSPORT. Loten EG, Regen DM, Park CR *J Cell Physiol* 89: 651-60, Dec 76 (Eng) DL/77MAY160

ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (cytology); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELLS, CULTURED; CYTOCHALASIN B (pharmacodynamics); GLUCOSE (analogs & derivatives, metabolism); INSULIN (pharmacodynamics); MALE; METHYLGUANIDINES (metabolism); PYRUVATES (metabolism); SUCROSE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[NEW ANIMAL EXPERIMENTS ON AEROBIC AND ANAEROBIC INNER EAR METABOLISM] Jakobi H, Lotz P, Kuhl KO, Harberland EJ *Acta Otolaryngol (Stockh)* 82: 95-8, Jul-Aug 76 (Ger) \*DL/77MAY623

Loubatieres A

[FUNCTIONAL PLASTICITY OF RECEPTOR-RESPONDER SYSTEMS OF ALPHA AND BETA CELLS OF THE ISLANDS OF LANGERHANS INVOLVED IN GLUCAGON AND INSULIN SECRETION] Loubatieres A, Loubatieres-Mariani MM, Chapal J, ANI MM 0006, APAL J *JP Journ Annu Diabetol Hotel Dieu* 207-26, May 76 (Fre) DL/77MAY248

ANIMAL; DOGS; GLUCAGON (secretion); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); RATS; RECEPTORS, ADRENERGIC (physiology); RECEPTORS, CHOLINERGIC (physiology).

Loubatieres-Mariani MM

[FUNCTIONAL PLASTICITY OF RECEPTOR-RESPONDER SYSTEMS OF ALPHA AND BETA CELLS OF THE ISLANDS OF LANGERHANS INVOLVED IN GLUCAGON AND INSULIN SECRETION] Loubatieres A, Loubatieres-Mariani MM, Chapal J, ANI MM 0006, APAL J *JP Journ Annu Diabetol Hotel Dieu* 207-26, May 76 (Fre) DL/77MAY248

Love R

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ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (immunology); HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HUMAN; INFANT.

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ATROPINE (diagnostic use); BUTYLS COPOLAMMONIUM BROMIDE (diagnostic use); ENGLISH ABSTRACT; GASTROINTESTINAL DISEASES (radiography); GASTROINTESTINAL MOTILITY (drug effects); GLUCAGON (adverse effects, diagnostic use); HUMAN; METOCLOPRAMIDE (diagnostic use); MORPHINE (diagnostic use); OXYPHENONIUM BROMIDE (diagnostic use); PARASYMPATHOLYTICS (diagnostic use, pharmacodynamics); PHYSOSTIGMINE (diagnostic use); PROPANTHELINE BROMIDE (diagnostic use).

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AMYLASE (analysis); ANIMAL; CHYMOTRYPSINOGEN (analysis); DIABETES MELLITUS (chemically induced, enzymology); HYDROLASES (analysis); ISLANDS OF LANGERHANS (enzymology); LIPASE (analysis); MICE; MONOGRAPH (mortality); PANCREAS (enzymology); RATS; STREPTOZOTOCIN.

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### BINDING SITES; BLOOD PROTEINS

(metabolism); CELL MEMBRANE (metabolism); DINITROFLUOROBENZENE (blood); DINITROPHENOLS (blood); ERYTHROCYTES (metabolism); ESCHERICHIA COLI (metabolism); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; PHENOLS (blood); PHOSPHOLIPIDS (blood); PROTEIN BINDING; SACCHAROMYCES CEREVISIAE (metabolism); TRINITROBENZENESULFONIC ACID (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[EPIDEMIOLOGY OF CONGENITAL HEART DISEASES IN THE ISLAND OF TENERIFE] Marti Cartaya JL, Alvarez Calero A, Martin Fernandez D, Perera Carrillo C, Sanchez Santos C, de la Rosa Rodriguez JA *Rev Esp Cardiol* 29: 545-52, Nov-Dec 76 (Spa) DL/77MAY382

CHILD; COMPARATIVE STUDY; ENGLISH ABSTRACT; FEMALE; HEART DEFECTS,



# Diabetes Literature—Author Index

Mays ET

CONGENITAL (mortality, occurrence); HUMAN; MALE; MATERNAL AGE; MEASLES (occurrence); PREGNANCY IN DIABETES (occurrence); PREGNANCY COMPLICATIONS, INFECTIOUS (occurrence); PREGNANCY; SPAIN.

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ACIDOSIS, DIABETIC (therapy);

EMERGENCIES; HUMAN.

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ANGIOTENSIN II; ANGIOTENSIN; ANIMAL; BRADYKININ; CATHEPSIN (metabolism); CORTICOTROPIN; DIPEPTIDES; GLUCAGON; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LIVER (enzymology); LYSOSOMES (enzymology); LH-FSH RELEASING HORMONE; RATS; STRUCTURE-ACTIVITY RELATIONSHIP.

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ADULT; DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); HISTOCOMPATIBILITY ANTIGENS (analysis); HL-A (analysis); HUMAN.

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ADOLESCENCE; ADULT; AGED; ANIMAL; ANTIBIOTICS (adverse effects); CASE REPORT; CHILD; CHILD, PRESCHOOL; CHOLECYSTECTOMY; COMMON BILE DUCT; COMPARATIVE STUDY; GLUCAGON (therapeutic use); HEMORRHAGE (therapy); HEMOSTATIC TECHNIQUES (adverse effects); HEPATECTOMY (methods); HEPATIC ARTERY (surgery); HUMAN; LIGATION (adverse effects); LIVER (blood supply, injuries, surgery); MALE; MIDDLE AGE; RUPTURE;



## McCallum CJ

SUCTION (methods); SUTURE TECHNIQS; VENA CAVA, INFERIOR (injuries, surgery); WOUNDS, GUNSHOT (occurrence); WOUNDS, NONPENETRATING (diagnosis, drug therapy); WOUNDS, PENETRATING (surgery); WOUNDS, STAB (occurrence).

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**ADULT; CASE REPORT; FALSE NEGATIVE REACTIONS; FEMALE; FETAL DEATH (diagnosis, etiology); HUMAN; OXYTOCIN (diagnostic use); PREGNANCY IN DIABETES (complications); PREGNANCY.**

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**AMYLASE (metabolism); ANDROSTANES (pharmacodynamics); CHOLESTEROL (pharmacodynamics); CULTURE MEDIA; DOSE-RESPONSE RELATIONSHIP, DRUG; ESTRADIOL (pharmacodynamics); FETUS (anatomy & histology); INSULIN (metabolism); ORGAN CULTURE; PANCREAS (cytology, drug effects); PREGNANES (pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**AGE FACTORS; AMYLASE (metabolism); ANIMAL EXPERIMENTS (analysis); CELL DIFFERENTIATION; COMPARATIVE STUDY; CORTICOSTERONE (pharmacodynamics); FETUS; ORGAN CULTURE; PANCREAS (cytology); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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**ADULT; AGED; ANTERIOR CHAMBER; DIABETIC RETINOPATHY (surgery); EYE DISEASES (etiology); GLAUCOMA (etiology); HUMAN; INTRAOCULAR PRESSURE; LASER COAGULATION (adverse effects, methods); MIDDLE AGE.**

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**ALANINE AMINOTRANSFERASE (blood); BLOOD COAGULATION DISORDERS (etiology); CARBOHYDRATE METABOLISM; INBORN ERRORS (diagnosis); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; EXCHANGE TRANSFUSION; FEMALE; FRUCTOSE INTOLERANCE (diet therapy, diagnosis); FRUCTOSEBIPHOSPHATE ALDOLASE (analysis); GALACTOSEMIA (diagnosis); HEMORRHAGE (etiology); HEPATOMEGALY (etiology); HUMAN; HYPOGLYCEMIA (etiology); INFANT; INFANT, NEWBORN; JAUNDICE (etiology); LIVER FUNCTION TESTS; LIVER (enzymology); NEUROLOGIC MANIFESTATIONS; PROGNOSIS; RESPIRATORY INSUFFICIENCY (etiology); TYROSINE (blood).**

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**ADULT; AGED; CHRONIC DISEASE; DIABETES MELLITUS (blood); FEMALE; GOUT (blood, diagnosis, drug therapy, prevention & control); HUMAN; HYPERTENSION, RENAL**

**(blood); LIVER DISEASES (blood); MALE; METABOLIC DISEASES (therapy); MIDDLE AGE; OBESITY (complications); RISK; URIC ACID (blood).**

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**ADULT; ALCOHOL, ETHYL (pharmacodynamics); CHOLESTEROL (metabolism); CHOLESTEROL, DIETARY; DIETARY FATS (administration & dosage); ENGLISH ABSTRACT; FATTY ACIDS, UNSATURATED (pharmacodynamics); FEMALE; GLUCAGON (physiology); HUMAN; HYPERCHOLESTEREMIA (diet therapy, metabolism); HYPERINSULINISM (metabolism); HYPERLIPIDEMIA (diet therapy, metabolism); INTESTINAL MUCOSA (metabolism); LIPIDS (blood); LIPOPROTEINS, HDL (metabolism); LIPOPROTEINS, LDL (metabolism); LIPOPROTEINS, VLDL (metabolism); LIVER (metabolism); MALE; MIDDLE AGE; PHOSPHOLIPIDS (blood); TRIGLYCERIDES (metabolism).**

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## Meyer KH

**CONTROL OF FATTY-ACID SYNTHETASE LEVELS BY EXOGENEOUS LONG-CHAIN FATTY ACIDS IN THE YEASTS CANDIDA LIPOLYTICA AND SACCHAROMYCES CEREVISIAE.** Meyer KH, Schweizer E *Eur J Biochem* 65: 317-24, 1 Jun 76 (Eng) \*DL/77MAY556  
**ACETYL COA CARBOXYLASE (metabolism); CANDIDA (enzymology, growth & development); CULTURE MEDIA; FATTY ACID SYNTHETASE COMPLEX (immunology, metabolism); FATTY ACIDS (metabolism, pharmacodynamics); GEL DIFFUSION TESTS; SACCHAROMYCES CEREVISIAE (enzymology, growth & development); SPECIES SPECIFICITY.**

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**SOMATOSTATIN ANALOGS WHICH INHIBIT GLUCAGON AND GROWTH HORMONE MORE THAN INSULIN RELEASE.** Meyers C, Arimura A, Gordin A, Fernandez-Durango R, Coy DH, Schally AV, Drouin J, Ferland L, Beaulieu M, Labrie F *Biochem Biophys Res Commun* 74: 630-6, 24 Jan 77 (Eng) DL/77MAY532

**AMINO ACIDS (analysis); ANIMAL; BIOLOGICAL ASSAY; GLUCAGON (blood); INSULIN (blood); MALE; PEPTIDE FRAGMENTS (analysis); PITUITARY GLAND, ANTERIOR (drug effects, secretion); RADIOIMMUNOASSAY; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, pharmacodynamics); SOMATOTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).**

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**ACTION POTENTIALS (drug effects); ADRENAL GLAND HYPOFUNCTION (drug therapy); ADULT; ANESTHESIA, INTRATRACHEAL; BLOOD PRESSURE (drug effects); CASE REPORT; DIABETIC RETINOPATHY (surgery); HUMAN; HYDROCORTISONE (pharmacodynamics); HYPOPHYSECTOMY; MALE; NEUROMUSCULAR BLOCKING AGENTS; NEUROMUSCULAR JUNCTION (drug effects); PANCURONIUM (administration & dosage, antagonists & inhibitors).**

### Mialhe P

**PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. II. PLASMA FREE FATTY ACIDS, AMINOACIDS, AND INSULIN VARIATIONS FOLLOWING HYPOPHYSECTOMY AND REPLACEMENT THERAPY WITH GROWTH HORMONE AND CORTICOSTERONE.** Foltzer C, Mialhe P *Diabetes Metab* 2: 101-5, Sep 76 (Eng) DL/77MAY90

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**SERUM INSULIN AND BLOOD SUGAR LEVELS IN A RURAL POPULATION OF JAMAICAN ADULTS.** Du Florey C, Milner RD, Miall WE *J Chronic Dis* 30: 49-60, Jan 77 (Eng) DL/77MAY164

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**A-23187 (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); CELL MEMBRANE (drug effects, physiology, ultrastructure); ERYTHROCYTES (physiology, ultrastructure); GLYCOPOLIPIDS (physiology); MEMBRANES (physiology); PHOSPHATIDYL INOSITOL (physiology); PHOSPHOLIPIDS (physiology); REVIEW.**

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**BACTERIAL INFECTIONS (therapy); CILIARY BODY (surgery); DIABETIC RETINOPATHY (surgery); EYE DISEASES (surgery); GLAUCOMA (surgery); HUMAN; METHODS; POSTOPERATIVE COMPLICATIONS (poisoning); PUPIL (surgery); RETINAL DISEASES (surgery); VITREOUS BODY (surgery).**

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**[DIABETIC AMYOTROPHY]** Kazakov VM, Skoromets AA, Mikhailov EP *Sov Med* 126-8, Dec 76 (Rus) DL/77MAY405

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**SERUM INSULIN AND BLOOD SUGAR LEVELS IN A RURAL POPULATION OF JAMAICAN ADULTS.** Du Florey C, Milner RD, Miall WE *J Chronic Dis* 30: 49-60, Jan 77 (Eng) DL/77MAY164

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### Mincou I

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**ADULT; AGED; DIABETES MELLITUS (occurrence); EPIDEMIOLOGIC METHODS; FEMALE; HUMAN; MALE; MIDDLE AGE; RUMANIA.**

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**ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DOGS; FEMALE; MALE; PANCREAS (transplantation); PANCREATECTOMY; SPLEEN (surgery); TRANSPLANTATION, HOMOLOGOUS (transplantation).**

### Mirouze J

**[AN ADENOMA OF THE ISLANDS OF LANGERHANS PRODUCING HYPOGLYCEMIA AND NORMAL BLOOD INSULIN ACTIVITY WHEN DETERMINED BY RADIOIMMUNOASSAY OF PERIPHERAL AND PORTAL BLOOD, BUT HAVING ELEVATED INSULIN-LIKE ACTIVITY IN PORTAL BLOOD ONLY (PROCEEDINGS)]** Mirouze J, Marchal G, Orsetti A, Baldet P, Piperno M, Monnier L, Jaffiol C, Hedon L *Diabete Metab* 2: 148, Sep 76 (Fre) DL/77MAY98

**ADENOMA (blood); BLOOD SUGAR (analysis); CASE REPORT; HUMAN; INSULIN (blood); ISLET CELL TUMOR (blood); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (analysis); PORTAL SYSTEM; RADIOIMMUNOASSAY.**

**[INSULIN INFUSION CONTROLLED BY CONTINUOUS BLOOD SUGAR RECORDING]** Mirouze J, Selam JL, Phan Tan Chi *Journ Annu Diabetol Hotel Dieu* 303-12, May 76 (Fre) DL/77MAY256

### BLOOD CHEMICAL ANALYSIS

**(instrumentation); BLOOD SUGAR (analysis); DIABETES MELLITUS (drug therapy); HUMAN; INSULIN (administration & dosage, therapeutic use).**

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**BLOOD SUGAR (metabolism); COMPARATIVE STUDY; DIPHENYLHYDANTOIN (administration & dosage, pharmacodynamics, therapeutic use); DRUG ADMINISTRATION SCHEDULE; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; HYPOGLYCEMIA (blood, drug therapy); INSULIN (blood).**

### Miskulin M

**[DIABETES AND CONNECTIVE TISSUE: DEMONSTRATION OF DEREGLATION OF THE BIOSYNTHESIS OF THE INTERCELLULAR MATRIX USING A BIOPSY METHOD]**

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ADULT; AGED; ALANINE (metabolism); AMINO ACIDS (metabolism); BLOOD SUGAR; ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; HEMODYNAMICS; HUMAN; INFECTION (metabolism); KETONES (metabolism); MALE; MIDDLE AGE; PROTEINS (metabolism);

SHOCK, ENDOTOXIC (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BLOOD SUGAR (analysis); CATTLE; FASTING; FOLK MEDICINE; HYPOGLYCEMIA (etiology); INJECTIONS, INTRAVENOUS; MALE; NIGERIA; RATS; URINE.

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**AUTOPSY; CASE REPORT; CHRONIC DISEASE; DIABETES MELLITUS, JUVENILE (complications); DIARRHOEA, INFANTILE (complications); HUMAN; INFANT; MALE.**

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**ANIMAL; ENGLISH ABSTRACT; FEMALE; FLUORESCENT ANTIBODY TECHNIC; GLUCAGON (analysis); INSULIN (analysis); ISLANDS OF LANGERHANS (cytology); MALE; PANCREAS (anatomy & histology, blood supply, embryology); PEPTIDES (analysis); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis).**

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**ADOLESCENCE; ASPARAGINASE (administration & dosage, adverse effects, therapeutic use); CHILD; CHILD, PRESCHOOL; DRUG THERAPY, COMBINATION; FEMALE; HUMAN; HYPERGLYCEMIA (chemically induced); INFECTION (complications); INJECTIONS, INTRAMUSCULAR; LEUKEMIA (complications); LEUKEMIA (drug therapy); LEUKEMIA, LYMPHOBLASTIC (drug therapy); LEUKEMIA, LYMPHOBLASTIC (complications); MALE; PREDNISONE (administration & dosage, therapeutic use); REMISSION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VINCRISTINE (adverse effects, therapeutic use).**

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**ANIMAL; CARCINOMA, EPIDERMAL (complications, metabolism, physiopathology); DNA, NEOPLASM (metabolism); ENGLISH ABSTRACT; HYPERGLYCEMIA (complications); MITOSIS; NEOPLASM TRANSPLANTATION; NEOPLASMS, EXPERIMENTAL; RATS; SYNDROME.**

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**[PHARMACOLOGICAL INVESTIGATIONS WITH THE COMBINATION SULFAMOXOLE/TRIMETHOPRIM, A NEW BROADSPECTRUM CHEMOTHERAPEUTIC AGENT (AUTHORS TRANSL)]** Gries J, Kretzschmar R, Kuhne J, Neumann W, Osterloh G, Scherschlicht R, Worstmann W *Arzneim Forsch* 26: 623-33, 1976 (Ger) \*DL/77MAY672

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ADOLESCENCE; ARGININE (diagnostic use); CHILD; FEMALE; GROWTH DISORDERS (diagnosis); HUMAN; INSULIN (diagnostic use); MALE; PITUITARY GLAND (physiopathology); RADIOIMMUNOASSAY; RESEARCH; SOMATOTROPIN (secretion); TESTOSTERONE (diagnostic use).

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AMINO ACID SEQUENCE; CATTLE; COMPARATIVE STUDY; ENGLISH ABSTRACT; HORMONES; HUMAN; LH; PROLACTIN; SHEEP; SOMATOTROPIN; THYROTROPIN.

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[INTENSIVE TREADMILL LOAD OF CHILDREN IN PRESCHOOL AGE] Pannier R, Paufler D, Tuch E, Heumann W *Kinderaerztl Prax* 44: 201-9, May 76 (Ger) \*DL/77MAY592

BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CHILD; CHILD, PRESCHOOL; EXERTION; FEMALE; HEART FUNCTION TESTS (methods); HEMOGLOBINS (analysis); HUMAN; LACTATES (blood); MALE; OXYGEN (blood); PARTIAL PRESSURE; PYRUVATES (blood).

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[GLUCOSE TOLERANCE TEST AND EXCRETION OF INSULIN IN CORONAROGENTIC DISEASES] Panosch I, Knoch I, Polachkova G, Dvorzhakova I *Klin Med (Mosk)* 54: 49-51, Apr 76 (Rus) DL/77MAY282

ADULT; AGED; CORONARY DISEASE (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (metabolism); MALE; MIDDLE AGE; SEX FACTORS.

### Pappalardo G

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ASTROCYTOMA; BIOLOGICAL TRANSPORT, ACTIVE; CELLS, CULTURED; GLUCOSE (metabolism); GLUCOSEPHOSPHATES (metabolism); GLYCOGEN (metabolism); INSULIN (pharmacodynamics); NEUROBLASTOMA; NEURONS (metabolism); URIDINE DIPHOSPHATE GLUCOSE (metabolism).

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[DYNAMIC EPIDEMIOLOGY OF DIABETES MELLITUS (AUTHORS TRANSL)] Pavel I, Sdrobici D *Diabete Metab* 2: 123-5, Sep 76 (Fr) DL/77MAY94

DIABETES MELLITUS (familial & genetic, occurrence, prevention & control); ENGLISH ABSTRACT; EPIDEMIOLOGIC METHODS; HUMAN; MASS SCREENING; PREDIABETIC STATE; RUMANIA; TIME FACTORS.

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HISTOCYTOCHEMISTRY; HUMAN; IMMUNOCYTOCHEMICS; ISLANDS OF LANGERHANS (cytology); PANCREATIC HORMONES (isolation & purification).

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DAILY CHANGES IN PLASMA AND LIVER LIPIDS AND LIPOPROTEIN LIPASE ACTIVITY IN HEART AND ADIPOSE TISSUE IN RATS FED A HIGH AND LOW FAT DIET. De Gasquet P, Grigolo S, Pequignot-Planche E, Malewiak M *J Nutr* 107: 199-212, Feb 77 (Eng) DL/77MAY215



# Diabetes Literature—Author Index

## Peran Mesa S

### Peran Mesa S

[PRELIMINARY STUDY ON THE EFFECTS PRODUCED IN THE LIPID FRACTION OF VARIOUS RAT ORGANS AFTER ADMINISTRATION OF VULGARIN (A NEW ORAL HYPOGLYCEMIC AGENT OF NATURAL ORIGIN)] Rodriguez de Vera C, Peran Mesa S, de Diego AM, Villar del Fresno A *Boll Chim Farm* 115: 445-56, Jun 76 (Spa) DL/77MAY1

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DIABETES MELLITUS (complications); EYE DISEASES (surgery); HEMORRHAGE (complications, surgery); HUMAN; POSTOPERATIVE COMPLICATIONS (poisoning); VISUAL ACUITY; VITREOUS BODY (surgery).

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DIABETES MELLITUS (blood); FEMALE; HUMAN; HYPERLIPIDEMIA (complications); HYPERLIPIDEMIA, ESSENTIAL FAMILIAL (complications); LIPOPROTEINS, VLDL (blood); MALE; PSORIASIS (blood); TRIGLYCERIDES (blood); URIC ACID (blood).

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ARTIFICIAL ORGANS; BLOOD SUGAR (analysis, physiology); C-PEPTIDE (blood); CIRCADIAN RHYTHM; COMPUTERS; DIABETES MELLITUS, JUVENILE (blood, drug therapy); DIABETIC COMA (drug therapy); HUMAN; HYPOGLYCEMIA (etiology); INSULIN (administration & dosage, blood, therapeutic use); ISLANDS OF LANGERHANS; PANCREAS; PROSTHESIS; REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (blood); SULFONYLUREA COMPOUNDS (therapeutic use).

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Pirart J

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ACCIDENTS, TRAFFIC; DIABETES MELLITUS (complications); HUMAN; HYPOGLYCEMIA (etiology); PATIENTS.

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Pittet P

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Platania P

[GLUCAGON IN THE TREATMENT OF ACUTE PANCREATITIS (CLINICAL CONTRIBUTION)] Polto F, Vadala G, Platania P, Cirino E *Chir Ital* 28: 163-70, Apr 76 (Ita) DL/77MAY27

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Pocwiardowska E

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AMINOPYRINE (pharmacodynamics); ANALGESICS AND ANTIPYRETICS (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ANTIPYRINE (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); IN VITRO; KETOGLUTARIC ACIDS (metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); OXIDATION-REDUCTION; OXYGEN CONSUMPTION (drug effects); PHOSPHATES, INORGANIC (metabolism); RATS; SALICYLATES (pharmacodynamics); STIMULATION, CHEMICAL.

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DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; GASTRECTOMY; GASTRIN (blood, secretion); HUMAN; PANCREATECTOMY; SOMATOSTATIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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Polak JM

CELLULAR ENDOCRINOLOGY OF THE GUT AND PANCREAS. PP. 89-102. Polak JM, Pearse AG, Gibson S In: Fujita T, ed. *Endocrine gut and pancreas*. Amsterdam, Elsevier Scientific, 1976. *WK* 170 1605e 1975. (Eng) [56 ref.] DL/77MAY185

ANIMAL; DOGS; ENDOCRINE GLANDS (cytology); ENDOCRINOLOGY (instrumentation); FLUORESCENT ANTIBODY TECHNIC; GASTROINTESTINAL HORMONES (biosynthesis, isolation & purification); GLUCAGON (immunology); HUMAN; INTESTINAL MUCOSA (cytology); MICE; MICE, OBESE; MICROSCOPY, ELECTRON; MONOGRAPH (mortality); MOTILIN (analysis); NEUROSECRETORY SYSTEMS (cytology); PANCREAS (cytology); REVIEW; SECRETIN (analysis); VASOACTIVE INTESTINAL PEPTIDE (analysis).

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ANIMAL; ANOXIA (physiopathology); BLOOD; CARBON DIOXIDE (blood); DOGS; GASTRIC JUICE (secretion); HEMATOCRIT; HISTAMINE (pharmacodynamics); HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics); MALE; OXYGEN (blood); PARTIAL PRESSURE; PENTAGASTRIN (pharmacodynamics); PULMONARY VEINS (surgery); VENA CAVA, INFERIOR (surgery).

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ACUTE DISEASE; ADULT; AGED; AMYLASE (metabolism); DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; GLUCAGON (administration & dosage, therapeutic use); HUMAN; INJECTIONS, INTRAMUSCULAR; INJECTIONS, INTRAVENOUS; MALE; MIDDLE AGE; PANCREATITIS (drug therapy).

Pometta D

[CORONARY INSUFFICIENCY, HYPERLIPEMIA AND DIABETES] Pometta D *Journ Annu Diabetol Hotel Dieu* 249-56, May 76 (Fre) [19 ref.] DL/77MAY252  
CHOLESTEROL (blood); CORONARY DISEASE (etiology); DIABETES MELLITUS (complications, familial & genetic); HUMAN; HYPERCHOLESTEREMIA (blood, complications); HYPERLIPIDEMIA (complications); OBESITY (complications); REVIEW; TRIGLYCERIDES (blood).

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ADULT; DIABETES MELLITUS (metabolism); EAR, EXTERNAL; ENGLISH ABSTRACT; FEMALE; GLYCOGEN (metabolism); HUMAN; MALE; PREDIABETIC STATE (metabolism); SEBACEOUS GLANDS (metabolism).

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# Diabetes Literature—Author Index

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HYDROCORTISONE (metabolism); INSULIN (metabolism); NEUROLEPTOANALGESIA; SOMATOTROPIN (metabolism); TESTOSTERONE (metabolism); THYROTROPIN (metabolism); TIME FACTORS; TRANQUILIZING AGENTS (administration & dosage, pharmacodynamics).

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ANIMAL EXPERIMENTS (analysis); CARDIOLIPINS (biosynthesis); CHOLESTEROL (metabolism); GLYCERIN (metabolism); LIPIDS (metabolism); LYSOSOMES (metabolism); MICROSOMES, LIVER (metabolism); MITOCHONDRIA, LIVER (metabolism); MOLECULAR WEIGHT; PEPTIDES (metabolism); PHOSPHATIDYL CHOLINE (biosynthesis); PHOSPHATIDYL ETHANOLAMINE (biosynthesis); PHOSPHOLIPIDS (metabolism); PROTEINS (metabolism); RATS.

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ABNORMAL GLUCOSE TOLERANCE IN BETA-THALASSEMIA MAJOR. Sauddek CD, Hemm RM, Peterson CM *Metabolism* 26: 43-52, Jan 77 (Eng) DL/77MAY302

ADOLESCENCE; ADULT; CHILD; DIABETES MELLITUS (blood, complications); FEMALE; FERRITIN (blood); GLUCOSE TOLERANCE TEST; HOMOZYGOTE; HUMAN; MALE; PUBERTY; SPLENECTOMY; THALASSEMIA (blood, complications, familial & genetic); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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[WHAT IS ACHIEVED BY THE THERAPY WITH ORAL ANTIDIABETICS] Sauer H, Schneider B *Internist (Berlin)* 17: 604-11, Dec 76 (Ger) [49 ref.] DL/77MAY145  
ADMINISTRATION, ORAL; ADULT; BIGUANIDES (administration & dosage, adverse effects); CHLORPROPAMIDE (administration & dosage, pharmacodynamics); DIABETES MELLITUS (therapy); DIABETIC ANGIOPATHIES (prevention & control); DRUG INTERACTIONS; GLIBENCLAMIDE (administration & dosage, pharmacodynamics); HUMAN; HYPOGLYCEMIA (chemically induced); HYPOGLYCEMIC AGENTS (adverse effects, therapeutic use); OBESITY IN DIABETES (diet therapy); PHENFORMIN (adverse effects, therapeutic use); PROSPECTIVE STUDIES; RETROSPECTIVE STUDIES; REVIEW.

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ADOLESCENCE; ADULT; ANTERIOR HORN CELLS; BLOOD SUGAR (metabolism); CHILD; CITRATES (blood); CREATINE KINASE (blood); FEMALE; HUMAN; LACTATES (blood); MALE; MOTOR NEURONS; NEUROMUSCULAR DISEASES (blood); PYRUVATES (blood).

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ACROMEGALY (cerebrospinal fluid); BRAIN DISEASES (cerebrospinal fluid); BRAIN NEOPLASMS (cerebrospinal fluid); CYSTS (analysis); DIABETIC RETINOPATHY (cerebrospinal fluid); GLIOMA (cerebrospinal fluid); HUMAN; SOMATOTROPIN (blood, cerebrospinal fluid); THYROTROPIN (blood, cerebrospinal fluid).

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ANIMAL; BLOOD SUGAR (metabolism); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); KINETICS; LEUCINE (pharmacodynamics); MALE; RATS; THEOPHYLLINE (pharmacodynamics); TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

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[PHARMACOLOGICAL INVESTIGATIONS WITH THE COMBINATION SULFAMOXOLE/TRIMETHOPRIM, A NEW BROADSPECTRUM CHEMOTHERAPEUTIC AGENT (AUTHORS TRANSL.)] Gries J, Kretzschmar R, Kuhne J, Neumann W, Osterloh G, Scherschlicht R, Worstmann W *Arzneim Forsch* 26: 623-33, 1976 (Ger) \*DL/77MAY672

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PHYSICAL TRAINING IN HUMAN HYPERPLASTIC OBESITY. IV. EFFECTS ON THE HORMONAL STATUS. Bjorntorp P, Holm G, Jacobsson B, Schiller-de-Jounge K, Lundberg PA, Sjöström L, Smith U, Sullivan I *Metabolism* 26: 319-28, Mar 77 (Eng) DL/77MAY313



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INTERACTION OF SOMATOSTATIN AND PENTAGASTRIN ON LOWER OESOPHAGEAL SPHINCTER PRESSURE (LESP) IN MAN. Rosch W, Lux G, Schittenhelm W, Demling L. *Acta Hepatogastroenterol (Stuttg)* 23: 209-12, Jan 76 (Eng) \*DL/77MAY622

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[GIANT CONDYLOMATA ACUMINATA (BUSCHKE-LOWENSTEIN) ON THE BASIS OF PYODERMA FISTULANS SINIFICA] Noster U, Schlosser GA, Janner M *Z Hautkr* 52: 45-9, 15 Jan 77 (Ger) DL/77MAY447

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ADOLESCENCE, CHILD, CHILD, PRESCHOOL, CHROMATOGRAPHY, GAS (methods); DIABETES MELLITUS, JUVENILE (urine); DIPROPYL ACETATE (therapeutic use, urine); FEMALE; HUMAN; MALE; PROPIONATES (urine); VALERATES (urine).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, metabolism, pharmacodynamics); ANIMAL; CELL FRACTIONATION; GLUCAGON (pharmacodynamics); HAMSTERS; INSULIN (secretion); ISLET CELL TUMOR (metabolism); KINETICS; MOLECULAR WEIGHT; NEOPLASM PROTEINS (metabolism); PHOSPHOPROTEINS (biosynthesis); RIBOSOMAL PROTEINS (metabolism); RIBOSOMES (drug effects); SUBCELLULAR FRACTIONS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADULT; AGED; CHOLESTEROL (blood); DEPRESSION, REACTIVE (complications); DIABETES MELLITUS (complications); ELECTROCARDIOGRAPHY; ENGLISH ABSTRACT; FEMALE; HEART DISEASES (etiology); HUMAN; HYPERTENSION (complications); MALE; MENTAL DISORDERS (complications); MENTAL RETARDATION (complications); MIDDLE AGE; OBESITY (complications); PARANOIA (complications); PERSONALITY DISORDERS (complications); PSYCHOSES, ORGANIC (complications); RISK; SCHIZOPHRENIA (complications); TRIGLYCERIDES (blood).

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LIPOLYTICA AND SACCHAROMYCES CEREVISIAE. Meyer KH, Schweizer E *Eur J Biochem* 65: 317-24, 1 Jun 76 (Eng) \*DL/77MAY556

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[DIABETES OF IDIOPATHIC HAEMOCHROMATOSIS AND COMMON DIABETES MELLITUS. RESULTS OF A PROSPECTIVE STUDY OF 97 FAMILIES WITH IDIOPATHIC HAEMOCHROMATOSIS (AUTHORS TRANSL.)] Simon M, Alexandre JL, Scordia C, Hespel JP, Bourel M *Diabete Metab* 2: 113-8, Sep 76 (Fre) DL/77MAY92

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[DYNAMIC EPIDEMIOLOGY OF DIABETES MELLITUS (AUTHORS TRANSL.)] Pavel I, Sdrobici D *Diabete Metab* 2: 123-5, Sep 76 (Fre) DL/77MAY94

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EFFECTS OF HANGOVER ON PSYCHOMOTOR SKILLS RELATED TO DRIVING: MODIFICATION BY FRUCTOSE AND GLUCOSE. Seppala T, Leino T, Linnola M, Huttunen M, Ylikari R *Acta Pharmacol Toxicol (Kbh)* 38: 209-18, Mar 76 (Eng) \*DL/77MAY624

ADOLESCENCE; ADULT; ALCOHOL, ETHYL (blood, pharmacodynamics); ALCOHOLIC INTOXICATION (physiopathology); ATTENTION (drug effects); AUTOMOBILE DRIVING; CHOICE BEHAVIOR (drug effects); DRUG INTERACTIONS; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; MALE; MOTOR SKILLS (drug effects); REACTION TIME (drug effects).

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ADULT; AMNIOTIC FLUID (analysis); COMPARATIVE STUDY; FALSE NEGATIVE REACTIONS; FEMALE; HUMAN; INFANT, NEWBORN; PHOSPHATIDYLCHOLINES (analysis); PREGNANCY IN DIABETES; PREGNANCY; PRENATAL DIAGNOSIS; PROGNOSIS; PULMONARY SURFACTANT (analysis); RESPIRATORY DISTRESS SYNDROME (diagnosis); SPHINGOMYELINS (analysis).

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CHLORPROPAMIDE (adverse effects); DIABETES MELLITUS (therapy); DIABETIC DIET (adverse effects); FEMALE; GLIBENCLAMIDE (adverse effects); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); INSULIN (adverse effects); MALE; METFORMIN (adverse effects); MIDDLE AGE; PATIENT ACCEPTANCE OF HEALTH CARE (pathology); PHENFORMIN (adverse effects); QUESTIONNAIRES; TOLBUTAMIDE (adverse effects).

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CESIUM; CHEMISTRY; COMPARATIVE STUDY; ELECTRIC CONDUCTIVITY; ELECTROCHEMISTRY; ENGLISH ABSTRACT; LIPOSOMES; PERMEABILITY; PHOSPHOLIPIDS; POTASSIUM; RUBIDIUM; SODIUM; VALINOMYCIN.

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ACETOHEXAMIDE (therapeutic use); ADMINISTRATION, ORAL; CHEMISTRY; CHLORPROPAMIDE (therapeutic use); DIABETES MELLITUS (drug therapy); DRUG EVALUATION; DRUG INTERACTIONS; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, blood, pharmacodynamics); INSULIN (secretion); LIPIDS (metabolism); PHENFORMIN (therapeutic use); REVIEW; SECRETORY RATE (drug effects); TOLAZAMIDE (therapeutic use); TOLBUTAMIDE (therapeutic use).

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ADOLESCENCE; ANTIGENS; CHILD; DIABETES MELLITUS, JUVENILE (blood, familial & genetic); HUMAN; INSULIN (blood).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; DEPRESSION, CHEMICAL; GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); HEPTOSES (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; MANNOHEPTULOSE (pharmacodynamics); RATS.

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ANIMAL; BINDING SITES, ANTIBODY; BINDING, COMPETITIVE; GLUCAGON (immunology); IMMUNE SERUMS; KINETICS; MALE; MICROCHEMISTRY; RABBITS (immunology); RADIOLOGICAL ASSAY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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INSULIN IN THE MANAGEMENT OF THE DIABETIC SURGICAL PATIENT: CONTINUOUS INTRAVENOUS INFUSION VS SUBCUTANEOUS ADMINISTRATION. Taitelman U, Reece EA, Bessman AN *JAMA* 237: 658-60, 14 Feb 77 (Eng) DL/77MAY232

ANESTHESIA, GENERAL, COMPARATIVE STUDY; DIABETES MELLITUS (complications, drug therapy); GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (prevention & control); INFUSIONS, PARENTERAL; INJECTIONS, SUBCUTANEOUS; INSULIN (administration & dosage, therapeutic use); PREOPERATIVE CARE; PROSPECTIVE STUDIES; SURGERY, OPERATIVE.

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ADOLESCENCE; ALDOSTERONE (blood); CASE REPORT; FEMALE; GLUCOSE TOLERANCE TEST; HAMARTOMA (diagnosis, pathology, secretion); HUMAN; JUXTAGLOMERULAR APPARATUS; KIDNEY FUNCTION TESTS; KIDNEY NEOPLASMS (diagnosis, pathology, secretion); RENAL ARTERY (radiography); RENIN (secretion).

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GASTRIC MOTOR ACTIVITY-STIMULATING SPECTRUM AND CHEMICAL ARCHITECTURE OF GASTROINTESTINAL HORMONES. PP. 197-208. Takeuchi S, Aizawa I, Couch EF, Itoh Z. In: Fujita T, ed. *Endocrine gut and pancreas*. Amsterdam, Elsevier Scientific, 1976. WK 170 1605e 1975. (Eng) DL/77MAY190

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ADULT; ALCOHOLISM (pathology); HUMAN; ISLANDS OF LANGERHANS (pathology); LIVER CIRRHOSIS (pathology); MIDDLE AGE; PANCREAS (pathology); PANCREATITIS (pathology).

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ADOLESCENCE; ADULT; CHILD; HUMAN; HYPERCHOLESTEREMIA (diagnosis, familial & genetic); INFANT; INSULIN (blood); LIPOPROTEINS (metabolism); TIME FACTORS; TRIGLYCERIDES (blood).

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ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; ESTERIFICATION; FATTY ACIDS (metabolism); MALE; MICROSOMES, LIVER (metabolism); MITOCHONDRIA, LIVER (metabolism); PHOSPHATIDYL CHOLINE (biosynthesis); PHOSPHATIDYL ETHANOLAMINE (biosynthesis); RATS; TRIGLYCERIDES (biosynthesis).

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ADIPOSE TISSUE (metabolism); ADULT; BLOOD FLOW VELOCITY; BLOOD SUGAR (analysis); CARBON DIOXIDE (blood); FATTY ACIDS, NONESTERIFIED (metabolism); FOREARM (metabolism); HUMAN; LACTATES (blood); MALE; MATHEMATICS; MODELS, BIOLOGICAL; MUSCLES (metabolism); OLEIC ACIDS (metabolism); OXYGEN CONSUMPTION; OXYGEN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; CHOLESTEROL (blood); DIETARY CARBOHYDRATES (metabolism); FRUCTOSE (metabolism); INSULIN (blood); MICE; MICE, OBESE; OBESITY (blood, metabolism); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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DIABETES MELLITUS (physiopathology); GLUCAGON (secretion); HUMAN; INSULIN (secretion).

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RESPONSE OF PLASMA INSULIN, SERUM FREE FATTY ACIDS AND BLOOD GLUCOSE IN GROWTH ONSET DIABETICS, TO I.V. TOLBUTAMIDE. Kirti S, Dutta PK, Vaishnava H, Singh RB *J Assoc Physicians India* 24: 141-6, Mar 76 (Eng) DL/77MAY150

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ACIDOSIS (etiology); ALCOHOL, ETHYL (metabolism); ALCOHOLIC INTOXICATION (complications); CASE REPORT; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCONEOGENESIS; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (etiology); LACTATES (metabolism); LIVER (metabolism); MALE; MIDDLE AGE; NAD (metabolism); PYRUVATES (metabolism).

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ANIMAL EXPERIMENTS (analysis); CIRCULAR DICHROISM; HUMAN; HYDROGEN-ION CONCENTRATION (physiology); MOLECULAR WEIGHT; MONOGRAPH (mortality); NUCLEAR MAGNETIC RESONANCE; PLANT PROTEINS; PROTEIN CONFORMATION; STEREOISOMERS, SUCROSE; TASTE; TROPICAL CLIMATE.

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A SYNDROME OF IMMUNOGLOBULIN A DEFICIENCY, DIABETES MELLITUS, MALABSORPTION, A COMMON HLA HAPLOTYPE, IMMUNOLOGIC AND GENETIC STUDIES OF FORTY-THREE FAMILY MEMBERS. Van Thiel DH, Smith WI Jr, Rabin BS, Fisher SE, Lester R *Ann Intern Med* 86: 10-9, Jan 77 (Eng) DL/77MAY494

ADDISONS DISEASE; ADOLESCENCE; ADULT; CASE REPORT; COMPLEMENT (deficiency); DIABETES MELLITUS (familial & genetic, immunology); DYSGAMMAGLOBULINEMIA (familial & genetic, immunology); FEMALE; GÖTTER, EXOPHTHALMIC; HISTOCOMPATIBILITY ANTIGENS; HL-A; HUMAN; IGA; IMMUNOLOGIC DEFICIENCY SYNDROMES (immunology); MALABSORPTION SYNDROMES (familial & genetic, immunology); MALE; MULTIPLE SCLEROSIS; PEDIGREE; RHEUMATIC FEVER; SYNDROME; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VITILIGO.

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AGE FACTORS; ANIMAL; BLOOD PROTEINS (metabolism); CHOLESTEROL (blood); DIABETES MELLITUS (blood, chemically induced); HYPERLIPIDEMIA (metabolism); INJECTIONS, INTRAVENOUS; LIPOPROTEINS, VLDL (administration & dosage, blood); MALE; PHOSPHOLIPIDS (blood); RATS; STREPTOZOTOCIN; TRIGLYCERIDES (blood).

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ACID-BASE EQUILIBRIUM; ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; ADULT; AGED; BICARBONATES (therapeutic use); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (prevention & control); HYPOKALEMIA (chemically induced, drug therapy); INSULIN (therapeutic use); MALE; MIDDLE AGE; POTASSIUM CHLORIDE (therapeutic use); SODIUM (therapeutic use).

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ALCOHOLS; BILE ACIDS AND SALTS; DETERGENTS; ENZYME ACTIVATION; FATTY ACIDS; KINETICS; LECITHINS; LIPASE (antagonists & inhibitors); LIPIDS; MICELLES; MOLECULAR CONFORMATION; PANCREAS (enzymology); PHOSPHOLIPASE (antagonists & inhibitors); REVIEW; SNAKE VENOMS; SURFACE PROPERTIES; TIME FACTORS; WATER.

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ADMINISTRATION, ORAL; ANIMAL; COMPARATIVE STUDY; DIABETES MELLITUS (blood, therapy); GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage, pharmacodynamics); INJECTIONS, INTRAPERITONEAL; INSULIN (blood); ISLANDS OF LANGERHANS (transplantation); PORTAL SYSTEM; RATS.

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ACETYL COA CARBOXYLASE (metabolism); CELL LINE; DIBUTYRYL CYCLIC AMP (pharmacodynamics); FATTY ACID SYNTHETASE COMPLEX (metabolism); FATTY ACIDS (biosynthesis); KINETICS; LIGASES (metabolism); NEUROGLIA (drug effects, metabolism); STEROLS (biosynthesis); THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL; DOGS; ENGLISH ABSTRACT; EPITHELIAL CELLS (analysis); FEMALE; GASTRIC MUCOSA (analysis); HISTOCYTOCHEMISTRY; INSULIN (analysis); INTESTINAL MUCOSA (analysis); MALE; QUINOLINES; STAINS AND STAINING.

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BLOOD SUGAR (analysis); FEMALE; FETAL BLOOD (analysis); HUMAN; INFANT; NEWBORN; INSULIN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY; PUERPERIUM.

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ADULT; BLOOD SUGAR (analysis); FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); GLUCONEOGENESIS; GLUCOSE (metabolism); GLYCOGEN (biosynthesis); HUMAN; INSULIN (blood); LACTATES (blood); LIVER (drug effects, metabolism); MALE; PYRUVATES (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

[INFLUENCE OF PROTEIN INGESTION ON THE AMINO ACID METABOLISM IN DIABETES MELLITUS] Wahren J, Felig P. *Journ Annu Diabetol Hotel Dieu* 7-20, May 76 (Fre) DL/77MAY268

ADULT; AMINO ACIDS (metabolism); DIABETES MELLITUS (metabolism); DIETARY

PROTEINS (metabolism); GLUCOSE (metabolism); HUMAN; MALE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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CORONARY DISEASE (etiology); HUMAN; INSULIN (blood).

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ADULT; ANEMIA (occurrence); CARDIOVASCULAR DISEASES (occurrence); DIABETES MELLITUS (occurrence); DIAGNOSIS; FEMALE; GLAUCOMA (occurrence); HUMAN; MALE; MULTIPHASIC SCREENING; NEOPLASMS (occurrence); PRIVATE PRACTICE; TUBERCULOSIS (occurrence); VENEREAL DISEASES (occurrence).

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AGE FACTORS; ARTERIES (metabolism); ATHEROSCLEROSIS (etiology); FIBRINOGEN (metabolism); HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); LIPOPROTEINS (metabolism); LIPOPROTEINS, LDL (metabolism); LIPOPROTEINS, VLDL (metabolism); MIDDLE AGE; MONOGRAPH (mortality);

PERMEABILITY; REVIEW; RISK; SEX FACTORS; SMOKING (complications).

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SERUM THYROTROPIN, PROLACTIN, AND GROWTH HORMONE LEVELS DURING THE EARLY NEONATAL PERIOD IN THE HUMAN INFANT. Sack J, Fisher DA, Wang CC. *J Pediatr* 89: 298-300, Aug 76 (Eng) \*DL/77MAY584

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EFFECT OF CARBIDOPA ON PROLACTIN, GROWTH HORMONE AND CORTISOL SECRETION IN MAN. Brown GM, Garfinkel PE, Warsh JJ, Stancor HC. *J Clin Endocrinol Metab* 43: 236-9, Jul 76 (Eng) \*DL/77MAY566

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ANIMAL; COMPUTERS; CRYSTALLOGRAPHY (methods); HUMAN; INSULIN (analysis); MICE; MICROSCOPY, ELECTRON; MONOGRAPH (mortality); PANCREAS (ultrastructure); RATS; SNAKES.

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EFFECTS OF HEMODIALYSIS ON HEARING THRESHOLD. Johnson DW, Wathen RL, Mathog RH. *ORL* 38: 129-39, 1976 (Eng) \*DL/77MAY599

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THE ACTION OF CHRYSOORA QUINQUECIRRHA (SEA NETTLE) TOXIN IN INHIBITING THE INTESTINAL TRANSPORT OF GLUCOSE IN THE GOLDEN HAMSTER. Watrous J, Walsh EP. *Toxicol* 14: 179-83, 1976 (Eng) \*DL/77MAY607

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); COELENTERATA; DEPRESSION, CHEMICAL; GLUCOSE (metabolism); HAMSTERS; IN VITRO; INTESTINAL ABSORPTION (drug effects); KINETICS; MARINE TOXINS (pharmacodynamics); MESOCRINETUS; SODIUM (metabolism).

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EFFECT OF DIETARY CONTROL AND EXERCISE TRAINING ON DAILY FOOD INTAKE AND SERUM LIPIDS IN POSTMYOCARDIAL INFARCTION PATIENTS. Watt EW, Wiley J, Fletcher GF. *Am J Clin Nutr* 29: 900-4, Aug 76 (Eng) \*DL/77MAY645

CHOLESTEROL (blood); CHOLESTEROL, DIETARY; COUNSELING; DIET, REDUCING;



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DIETARY FATS; DIETETICS; ENERGY METABOLISM; EXERCISE THERAPY; HUMAN; HYPERLIPIDEMIA (diet therapy); LIPIDS (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (diet therapy, therapy); TRIGLYCERIDES (blood).

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BEHAVIOUR OF GLIBENCLAMIDE ON REPEATED ADMINISTRATION TO DIABETIC PATIENTS. Balant L, Zahnd GR, Weber F, Fabre J *Eur J Clin Pharmacol* 11: 19-25, 1977 (Eng) DL/77MAY82

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A RELATIONSHIP BETWEEN FUNCTIONAL AGE AND HEALTH STATUS IN FEMALE SUBJECTS. Webster IW, Logie AR *J Gerontol* 31: 546-50, Sep 76 (Eng) \*DL/77MAY569  
ADULT; AGE FACTORS; AGED; AGING; ALKALINE PHOSPHATASE (blood); BLOOD SEDIMENTATION; BLOOD SUGAR (metabolism); FEMALE; HEALTH STATUS INDICATORS; HEALTH SURVEYS; HUMAN; MALE; MIDDLE AGE; REGRESSION ANALYSIS; SMOKING; TRIGLYCERIDES (blood).

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L-ASPARAGINASE, VINCRISTINE, AND PREDNISONE FOR INDUCTION OF FIRST REMISSION IN ACUTE LYMPHOCYTIC LEUKEMIA. Ortega JA, Nesbit ME Jr, Donaldson MH, Hittle RE, Weiner J, Karon M, Hammond D *Cancer Res* 37: 535-40, Feb 77 (Eng) DL/77MAY23

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ADOLESCENCE; ADULT; CONTRAST MEDIA (adverse effects); CORONARY VESSELS (radiography); DIABETIC NEPHROPATHIES (complications); DIATRIZOATE (adverse effects); FEMALE; HEART

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CATHETERIZATION; HEMODIALYSIS; HUMAN; KIDNEY FAILURE, ACUTE (chemically induced, therapy); MALE; UREMIA (complications); UROGRAPHY (adverse effects).

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ADULT; ANTIGEN-ANTIBODY REACTIONS; CASE REPORT; FEMALE; GLUCAGON (immunology, secretion); HUMAN; MALE; MIDDLE AGE; MOLECULAR WEIGHT; PANCREATIC NEOPLASMS (blood, immunology, secretion); PROTEIN PRECURSORS (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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MEDICAL GRAND ROUNDS FROM THE WEST VIRGINIA UNIVERSITY MEDICAL CENTER: CONTROVERSY IN INTERNAL MEDICINE: STRICT VERSUS RELAXED THERAPY OF DIABETES MELLITUS. Weiss RB *W Va Med J* 73: 54-9, Mar 77 (Eng) DL/77MAY437  
DIABETES MELLITUS (complications, mortality, therapy); DIABETES MELLITUS, JUVENILE (therapy); HUMAN.

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APUDOMAS OF THE GUT. Welbourn RB *Am J Surg* 133: 13-22, Jan 77 (Eng) [38 ref.] DL/77MAY484  
ADENOMATOSIS, FAMILIAL ENDOCRINE (diagnosis); ADULT; AMINES (metabolism); CARBOXY-L-YASES (metabolism); CASE REPORT; DEHYDRATION (diagnosis); ENDOCRINE GLANDS (pathology); FLUORESCENT ANTIBODY TECHNIC; GASTRIN (secretion); GLUCAGON (secretion); HUMAN; HYPERPLASIA; INTESTINAL NEOPLASMS (classification, diagnosis, secretion); INTESTINAL SECRETIONS; INTESTINES (pathology); ISLET CELL TUMOR (diagnosis); KIDNEY FAILURE, ACUTE (diagnosis); MALE; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (diagnosis); NEUROSECRETORY SYSTEMS (cytology); PANCREAS (pathology); PEPTIDES (secretion); REVIEW; ZOLLINGER-ELLISON SYNDROME (diagnosis).

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ALBUMINS (metabolism); ALPHA FETOPROTEINS (metabolism); ANIMAL;

ANTIBODIES (administration & dosage); ANTIGENS; CHICK EMBRYO (metabolism); CYCLOHEXIMIDE (pharmacodynamics); IMMUNOELECTROPHORESIS; INSULIN (pharmacodynamics); MONOGRAPH (mortality); PUROMYCIN (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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COMPARISON BETWEEN GLUCOSE AND A COMBINATION OF GLUCOSE, FRUCTOSE, AND XYLITOL AS CARBOHYDRATES FOR TOTAL PARENTERAL NUTRITION OF SURGICAL INTENSIVE CARE PATIENTS. Leutenegger AF, Goschke H, Stutz K, Mannhart H, Werdenberg J, Werdenberg D, Wolff G, Allgower M *Am J Surg* 133: 199-205, Feb 77 (Eng) DL/77MAY486

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PREPACKAGED DRUGS CAN BE CONFUSED [LETTER]. Wettach GE *JACEP* 6: 68, Feb 77 (Eng) DL/77MAY239  
ADULT; CASE REPORT; DRUG CONTAINERS AND CLOSURES; DRUG LABELING; FEMALE; HUMAN; INSULIN COMA (chemically induced); MEDICATION ERRORS; TOLBUTAMIDE (poisoning).

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HYPOLYCAEMIC COMA: A PRESENTING FEATURE OF SECONDARY CARCINOMA OF THE LIVER. Kelleher J, Doyle C, Walsh H, OSullivan DJ, Whelton MJ *Ir J Med Sci* 146: 12-4, Jan 77 (Eng) DL/77MAY147

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TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 105: 83-4, Feb 77 (Eng) DL/77MAY296  
CASE REPORT; DIABETIC NEUROPATHIES (diagnosis); DIAGNOSIS, DIFFERENTIAL; HUMAN; ILIAC ARTERY; MALE; MIDDLE AGE; PAIN; SPONDYLOLISTHESIS (diagnosis); SPONDYLOLYSIS (diagnosis); THROMBOSIS (diagnosis).

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THE REGULATION OF TRANSPORT OF GLUCOSE, GLUCONATE AND 2-OXOGLUCONATE AND OF GLUCOSE CATABOLISM

**IN PSEUDOMONAS AERUGINOSA.** Whiting PH, Midgley M, Dawes EA *Biochem J* 154: 659-68, 15 Mar 76 (Eng) \*DL/77MAY658

#### AMMONIUM COMPOUNDS

(pharmacodynamics); CITRATES (pharmacodynamics); GLUCONATES (metabolism, pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); GLUCOSEPHOSPHATE DEHYDROGENASE (biosynthesis); HEXOKINASE (biosynthesis); KETOSES (metabolism); MUTATION; OXIDOREDUCTASES (biosynthesis); PHOSPHOTRANSFERASES (biosynthesis); PSEUDOMONAS AERUGINOSA (enzymology, metabolism).

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**PROLACTIN LEVELS IN THE INSULIN TOLERANCE TEST WITH AND WITHOUT PRE-TREATMENT WITH DEXAMETHASONE.** Osterman PO, Fagius J, Wide L *Acta Endocrinol (Kbh)* 84: 237-45, Feb 77 (Eng) DL/77MAY453

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**CUSHING'S DISEASE: GROWTH HORMONE RESPONSE TO HYPOGLYCEMIA AFTER CORRECTION OF HYPERCORTISOLISM.** Tyrrell JB, Wiener-Kronish J, Lorenzi M, Brooks RM, Forsham PH *J Clin Endocrinol Metab* 44: 218-21, Jan 77 (Eng) DL/77MAY170

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ACETOACETATES (metabolism, urine); ADOLESCENCE; ADULT; DIABETES MELLITUS, JUVENILE (metabolism, urine); FEMALE; GLOMERULAR FILTRATION RATE; HUMAN; HYDROXYBUTYRATES (administration & dosage, metabolism, urine); INJECTIONS, INTRAVENOUS; KIDNEY TUBULES (metabolism); MALE; MIDDLE AGE.

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ENERGY TRANSFER; MEMBRANE POTENTIALS; MEMBRANES (physiology); MODELS, BIOLOGICAL; NEURAL CONDUCTION; VIBRATION.

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**GLUCAGON AND AMINOPHYLLINE AS PULMONARY VASODILATORS IN THE CALF WITH HYPOXIC PULMONARY HYPERTENSION.** Bisgard GE, Will JA *Chest* 71: 263-5, Feb 77 (Eng) DL/77MAY52

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**EFFECTS OF OLEIC ACID AND OXYGEN RESTRICTION FOLLOWED BY RE-OXYGENATION ON RHYTHM AND CONTRACTILE ACTIVITY OF THE ISOLATED RAT HEART; PROTECTIVE ACTION OF GLUCOSE.** Willebrands AF, Tasseron JA, ter Welle HF, van Dam RT *J Mol Cell Cardiol* 8: 375-88, May 76 (Eng) \*DL/77MAY587

AEROBIOSIS; ANAEROBIOSIS; ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); CORONARY CIRCULATION (drug effects); GLUCOSE (pharmacodynamics); MALE; MYOCARDIAL CONTRACTION (drug effects); OLEIC ACIDS (pharmacodynamics); OXYGEN (pharmacodynamics); PERFUSION; RATS.

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**DISSOCIATION AND CATALYSIS IN YEAST HEXOKINASE A.** Williams DC, Jones JG *Biochem J* 155: 661-7, 1 Jun 76 (Eng) \*DL/77MAY661

ADENOSINE TRIPHOSPHATE (metabolism); CATALYSIS; GLUCOSE (metabolism); HEXOKINASE (metabolism); KINETICS; PROTEIN CONFORMATION; PROTEINS (analysis); SACCCHAROMYCES CEREVISIAE (enzymology); SPECTROPHOTOMETRY; TEMPERATURE.

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**RIFAMPICINE AND ENZYME INDUCTION.** Davies M, Williams R, Burley DM *Med Chir Dig* 5: 341-3, 8 May 76 (Eng) DL/77MAY286

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ANIMAL EXPERIMENTS (analysis); CIRCADIAN RHYTHM; CORTICOTROPIN (blood); DARKNESS; DOPAMINE (pharmacodynamics); FSH (blood); HUMAN; HYPOTHALAMUS (drug effects, physiology); LIGHT; LH (blood); MALE; MONOGRAPH (mortality); PITUITARY GLAND, ANTERIOR (physiology); RATS; REVIEW; SOMATOTROPIN (blood, secretion).

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**HUMORAL ANTI-INSULIN IMMUNITY AND HLA FACTORS IN JUVENILE ONSET DIABETES [PROCEEDINGS].** Scherthaner G, Ludwig H, Mayr WR, Willvonseder R *Diabetes Metab* 2: 157, Sep 76 (Eng) DL/77MAY104

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ADULT; DIABETES MELLITUS (diagnosis); ENDOCRINE DISEASES (diagnosis); FEMALE; HUMAN; HYPERTHYROIDISM (diagnosis); HYPOGLYCEMIA (diagnosis); HYPOTHYROIDISM (diagnosis); ISLET CELL TUMOR (diagnosis); MIDDLE AGE; PREGNANCY; THYROID NEOPLASMS (diagnosis); THYROIDITIS (diagnosis); THYROIDITIS, LYMPHOMATOUS (diagnosis).

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**STUDIES ON THE SYNTHESIS OF OVINE INSULIN.** PP. 487-96. Hiskey RG, Wittinghofer A, Goud AN, Vunnam RR In: *Walter R, Meienhofer J, ed. Peptides: chemistry, structure and biology.* Ann Arbor, Ann Arbor Science Publishers, 1975. W3 AM595 1975p. (Eng) DL/77MAY207

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**[TRANSPLANTATION OF ISOLATED ISLETS OF LANGERHANS INTO THE LIVER OF DIABETIC DOGS (AUTHORS TRANSL)]** Lorenz D, Reding R, Petermann J, Beckert R, Worm V, Tietz W, Rosenbaum KD, Lippert H, Dorn A, Koch G *Zentralbl Chir* 101: 1359-68, 1976 (Ger) DL/77MAY450

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DIFFUSION; LIGHT; MACROMOLECULAR SYSTEMS; MOLECULAR CONFORMATION; MURAMIDASE; RHODOPSIN; SCATTERING, RADIATION; SERUM ALBUMIN, BOVINE; SOLUTIONS; TRANSFERRIN.

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ALKALOSIS, RESPIRATORY (complications, metabolism, physiopathology); ANIMAL; BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLUCONEOGENESIS (drug effects); GLUCOSE (metabolism); HYPOGLYCEMIA (blood, etiology); INSULIN (blood, pharmacodynamics); MALE; RATS; RECEPTORS, ADRENERGIC (physiology); RECEPTORS, ADRENERGIC, ALPHA (drug effects, physiology); STIMULATION, CHEMICAL; TIME FACTORS.

Yalow RS

MULTIPLE FORMS OF CORTICOTROPIN (ADRENOCORTICOTROPIC HORMONE, ACTH) AND THEIR SIGNIFICANCE. Yalow RS *Ciba Found Symp* 41: 159-81, 1976 (Eng) \*DL/77MAY551

ADDISON'S DISEASE (metabolism); ADENOMA (metabolism); CARCINOMA, BRONCHOGENIC (metabolism); COLONIC DISEASES (metabolism); CORTICOTROPIN (blood, immunology, metabolism); CUSHING'S SYNDROME (metabolism); HUMAN; HYPERPARATHYROIDISM (metabolism); NEOPLASMS (metabolism); PARATHYROID NEOPLASMS (metabolism); PITUITARY GLAND (metabolism); RADIOIMMUNOASSAY; UREMIA (metabolism).

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ANIMAL; BRAIN (metabolism); DOGS; FLUORESCENT ANTIBODY TECHNIQUE; ISLANDS OF LANGERHANS (metabolism); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (metabolism); THYROID GLAND (metabolism).

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; CARBOXYLIC ACIDS (metabolism); CITRULLINE (biosynthesis); GLUCAGON (pharmacodynamics, physiology); MALE; MITOCHONDRIA, LIVER (drug effects, metabolism); OXIDATIVE PHOSPHORYLATION; PYRUVATES (metabolism); RATS; SUCCINATES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ).

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AMINO ACID SEQUENCE; ANIMAL; C-PEPTIDE (immunology); CATTLE; CROSS REACTIONS; DOGS; HUMAN; MONOGRAPH (mortality); PEPTIDES (analysis, immunology); PROINSULIN (immunology); RABBITS; RADIOIMMUNOASSAY; RATS; REVIEW; SWINE.

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ADENYL CYCLASE (metabolism); DEXAMETHASONE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DRUG SYNERGISM; EPINEPHRINE (pharmacodynamics); FEMALE; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); MAMMARY CANCER VIRUS (drug effects, growth & development); MAMMARY NEOPLASMS, EXPERIMENTAL; MICE; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ); VIRUS REPLICATION (drug effects).

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